



Report on the Activities of Lead Agencies and Surface Mining Operations in California

California Department of Conservation

Division of Mine Reclamation



San Rafael Rock Quarry, Marin County, California

STATE OF CALIFORNIA

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Report on the Activities of Lead Agencies and Surface Mining Operations in California



DIVISION OF MINE RECLAMATION

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Executive Summary

This report satisfies the legislative report requirements of Senate Bill 447 (Lara, Chapter 417, Statutes of 2013), which was signed by Governor Brown in September 2013. The Department of Conservation's (Department) Division of Mine Reclamation (Division) (formerly the Office of Mine Reclamation), as noted in Public Resources Code (PRC) section 2717(c) (1-10), is required to submit a report to the California State Legislature on the activities of lead agencies and surface mining operations. Part 1 of the report summarizes the objective and scope of this report; Part 2 provides responses to each legislative reporting request. The appendices provide references, data sources, and informational tables.

California is unique among most other states in that the permitting and approval of reclamation plans for surface mining are accomplished by local governments acting as the lead agency. Under the California Surface Mining and Reclamation Act of 1975 (SMARA), a lead agency may be a city, county, the San Francisco Bay Conservation and Development Commission (BCDC), or the California State Mining and Geology Board (Board). Lead agencies have the primary responsibility for the administration and enforcement of SMARA. There are currently 95 SMARA lead agencies: 55 counties, 39 cities, and the Board. A list of SMARA lead agencies is presented in Table 10 in Appendix B of this report.

Key Findings on Activities of Lead Agencies and Surface Mining Operations

- 1) Number of financial assurance cost estimates reviewed and approved each year by each lead agency.
 - *Lead agencies across the state approved 944 financial assurance cost estimates in 2014, and 944 financial assurance cost estimates in 2015.*
- 2) Number of annual mine inspections performed by each lead agency.
 - *Lead agencies across the state performed 1,109 annual mine inspections in 2014 and 1,118 annual mine inspections in 2015.*
- 3) Information on idle mines and interim management plans approved by each lead agency.
 - *There were 150 idle mines and 132 interim management plans approved by lead agencies across the state as of December 31, 2015.*
- 4) Number and location of mining operations that are no longer in operation with no intent to resume and are in the process of reclamation, and how many years each of these mining operations has claimed that status.
 - *Across the state, there were 118 mining operations that were no longer in operation with no intent to resume and in the process of reclamation as of December 31, 2015.*
- 5) Information on approved mineral resources management plans across the state from the board.
 - *In March 2007, the Board sent an informational request to lead agencies requesting copies of their respective mineral resource management policies. Sixty-nine (69) lead agencies responded to the informational request.*

- 6) Number and location of mines with reclamation plans approved prior to the adoption of the 1993 reclamation standards.
 - *Across the state, there were 527 mines with reclamation plans approved prior to the adoption of the 1993 reclamation standards as of December 31, 2015.*
- 7) Percentage of mining operations on the list published pursuant to PRC section 2717 subdivision (b) and the number and location of mining operations that have been placed on the list pursuant to clause (ii) of subparagraph (B) of paragraph (4) of subdivision (b).
 - *69 percent of the 1,209 unreclaimed mines across the state are on the AB 3098 List. One mine in Merced County is on the AB 3098 List complying with an Order to Comply issued by its lead agency.*
- 8) Number of historic abandoned mines remediated by the Department and locations of known remaining hazards.
 - *Since 2002, the Department has remediated 1,340 physical safety hazards at historic abandoned mines in 32 counties. The Department has documented 9,489 features presenting a physical safety hazard on publically owned lands that have been identified as in need of remediation (out of 61,500 inventoried features).*
- 9) Number, types, and status of notices of violations and orders to comply issued by the Department organized by location.
 - *There were no notices of violations nor orders to comply issued by the Department in 2014 and 2015.*
- 10) Number of administrative penalties issued by the Department and amounts, as well as information on the amounts actually collected by the Department organized by location.
 - *Across the state, the Department issued 12 administrative penalties that amounted to \$154,988.63 between 2014 and 2015. As of the date of this report, \$3,999.84 has been collected by the Department.*

Data Acquisition

In preparing this report, the Division reviewed information available in the Department's databases and electronic and paper mine files. Relevant information on surface mining operations was tabulated on data spreadsheets specific to each SMARA jurisdiction. A notification letter was sent to all lead agencies that included the data spreadsheet specific to their jurisdiction, and instructions to review and submit accurate data. Lead agencies reviewed and validated the accuracy of information for this report.

Data Sources

Data for this report responding to PRC section 2717(c) (1-4, 6, 9, and 10) was compiled from information for the 2014 and 2015 reporting years and based on information submitted to the Division by lead agencies and surface mining operators. PRC section 2717 became effective January 1, 2014. Annual reports are received in the year following the reporting year. Hence, data for the 2016 reporting period will be due to the division on July 1, 2017, and are not included in this report.

Baseline Conditions

The following are key facts from this report:

- Data compilation for surface mining operations included 19,344 separate data points.
- All 95 SMARA lead agencies collaborated with the Division to assist in validating the data compiled for this report. This amounts to a lead agency validation of data for 1,209 (100 percent) of the 1,209 surface mining operations in the state.
- These 95 lead agencies are comprised of: 55 counties, 39 cities, and the Board.
- As of December 31, 2015, there were 1,209 surface mining operations subject to SMARA.
- The 55 counties that serve as lead agencies contained from 1 to 87 surface mining operations within their jurisdiction and averaged 20 surface mining operations per county.
- The 39 cities that serve as lead agencies contained from 1 to 12 surface mining operations within their jurisdiction and averaged two surface mining operations per city.
- The Board exercises SMARA lead agency authority for two counties (El Dorado County and Yuba County), ten cities that have not adopted mining ordinances, and the San Francisco Bay Conservation and Development Commission (BCDC).

Data Disclaimer

The Division provides the data contained in this report to satisfy the requirements of PRC section 2717(c). The data presented in response to items six through ten have been supplied by third parties, and the content is believed to be reliable.

Part I: Introduction

Objective and Scope of This Report

The objective of this report is to provide the requested information to the California Legislature regarding the activities of lead agencies and surface mining operations in California pursuant to PRC section 2717(c) (1-10), which requires the Division to compile and present information regarding the following items:

- (1) Financial assurance cost estimates approved by each lead agency.
 - (See Part II of this report and Table 4 in Appendix B.)
- (2) Number of annual mine inspections performed by each lead agency.
 - (See Part II of this report and Table 5 in Appendix B.)
- (3) Information on idle mines and interim management plans approved by each lead agency.
 - (See Part II of this report and Table 6 in Appendix B.)
- (4) The number and location of mining operations that are no longer in operation with no intent to resume and are in the process of reclamation, and how many years each of these mining operations has claimed that status.
 - (See Part II of this report and Table 7 in Appendix B.)
- (5) Information on approved mineral resource management plans across the state from the Board.
 - (See Table 1 in Part II of this report.)
- (6) Number and location of mines with reclamation plans approved before 1993 reclamation standards.
 - (See Part II of this report and Table 8 in Appendix B.)
- (7) Percentage of mining operations on the list published pursuant to PRC section 2717 subdivision (b) and the number and location of mining operations that have been placed on the list pursuant to clause (ii) of subparagraph (B) of paragraph (4) of subdivision (b).
 - (See Table 2 in Part II of this report.)
- (8) Number of historic abandoned mines remediated by the Department and locations of known remaining hazards.
 - (See Part II of this report and Table 9 in Appendix B.)
- (9) Number, types, and status of notices of violations and orders to comply issued by the Department, organized by location.
 - (See Part II of this report.)
- (10) Number of administrative penalties issued by the Department and amounts, as well as information on the amounts actually collected by the Department, organized by location.
 - (See Table 3 in Part II of this report.)

Contact Information

Questions regarding the content of this report may be emailed to:

- DMR@conservation.ca.gov

Visit the Division of Mine Reclamation website:

- <http://www.conservation.ca.gov/dmr/>

Acronyms and Abbreviations

Term	Description
AB 3098 List	Assembly Bill 3098 List
AP	Administrative Penalty
CCR	California Code of Regulations
DMR	Division of Mine Reclamation
DOC	Department of Conservation
FACE	Financial Assurance Cost Estimate
FAM	Financial Assurance Mechanism
IMP	Interim Management Plan
IR	Inspection Report
LA	Lead Agency
MINE ID#	Mine Identification Number
MRMP	Mineral Resource Management Plan or Policy
N/A	Not Applicable or Not Available
NOV	Notice of Violation
OTC	Order to Comply
PCC	Public Contracts Code
PRC	Public Resources Code
SB 447	California Senate Bill 447
SMARA	Surface Mining and Reclamation Act
SMGB	State Mining and Geology Board (Board)
SOTC	Stipulated Order to Comply

Part II: PRC Section 2717 – Activities of Lead Agencies and Surface Mines

PRC section 2717(c) states:

“Between July 1, 2017, and January 1, 2018, the Department shall submit to the Legislature a report on the activities of lead agencies and surface mining operations. This report shall include, but is not limited to, all of the following.”

PRC section 2717(c) contains the following ten statements that require a response:

(1) **Financial assurance cost estimates reviewed and approved each year by each lead agency**

Annual Financial Assurance Cost Estimate (FACE) reviews and adjustments are a key component of SMARA. FACE reviews conducted by lead agencies include an evaluation of the reclamation tasks and associated costs submitted by the operator to ensure they meet the performance requirements of the reclamation plan, as well as costs for reclamation of land that will be disturbed in the next year. Annual review also ensures that adequate funding is set aside for reclamation of the mined lands pursuant to the reclamation plan in case of operator abandonment or financial incapability. Lead agencies are required to review financial assurances on an annual basis until the site has been certified as reclaimed pursuant to the approved reclamation plans by the lead agency and the Department. FACEs for 2014 and 2015 reporting years approved by each lead agency are presented in the charts below and in the informational tables in Appendix B, Table 4.

Chart 1a: FACEs Approved by Lead Agency

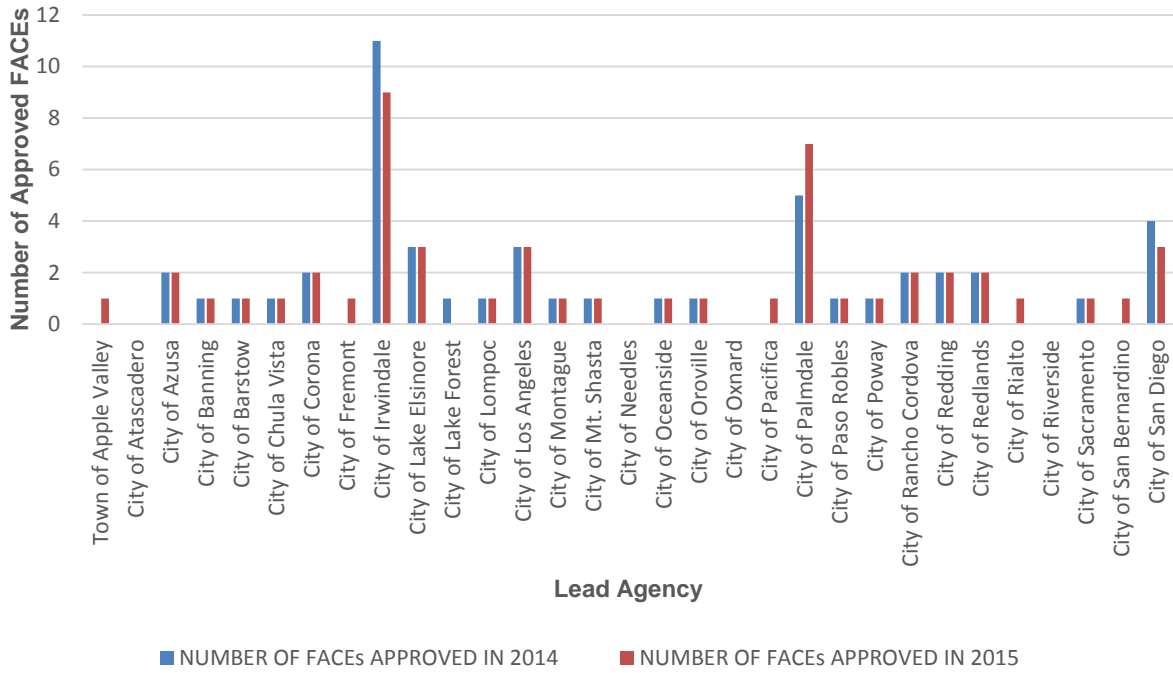
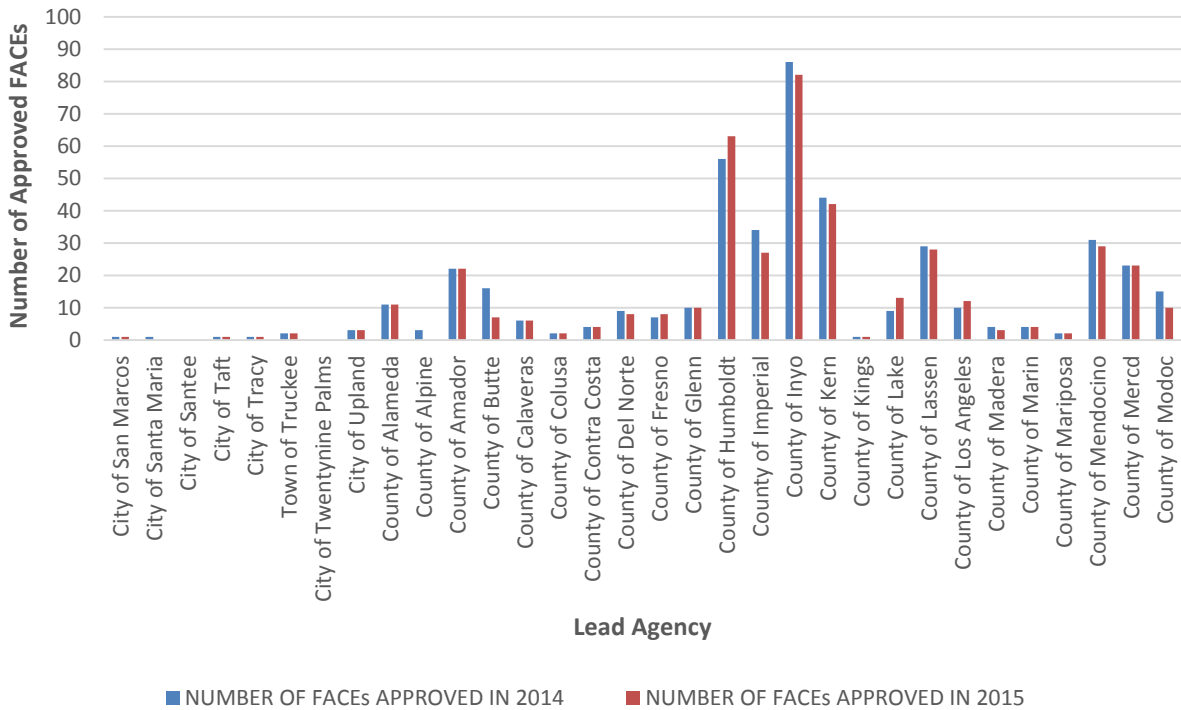
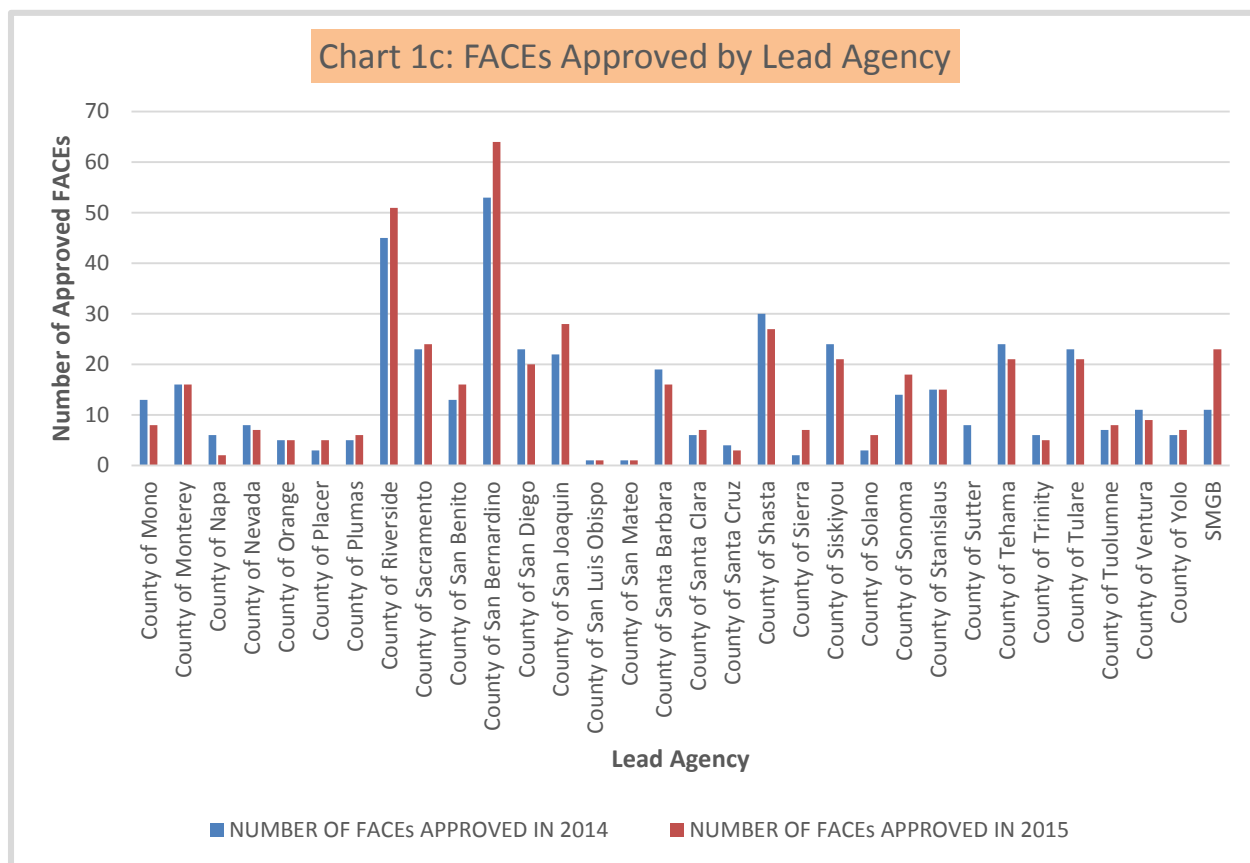


Chart 1b: FACEs Approved by Lead Agency



See Appendix B, Table 4 for detailed information



See Appendix B, Table 4 for detailed information

(2) Number of annual mine inspections performed by each lead agency

Mine inspections conducted by lead agencies are a key element of SMARA to determine compliance with applicable laws and regulations and adequacy of Financial Assurances. Annual mine inspections conducted by a lead agency include observations of: current mining conditions, stability of slopes, erosion control measures, condition and location of mining waste and tailings piles, disposition of existing structures, revegetation activities, and whether the physical condition of the mine site allows for reclamation in accordance with the performance requirements of the approved reclamation plan. SMARA requires all mines that have not had their financial assurances released and had their reclamation certified complete by the lead agency to undergo at least one inspection per year. PRC section 2774(b) outlines the requirements for lead agencies to conduct mine inspections. Lead agencies must notify and submit copies of annual inspection reports to the Department. Annual mine inspections by each SMARA lead agency for 2014 and 2015 reporting years are presented in the charts below and in the informational tables in Appendix B, Table 5.

Chart 2a: Annual Inspections Performed by Lead Agency

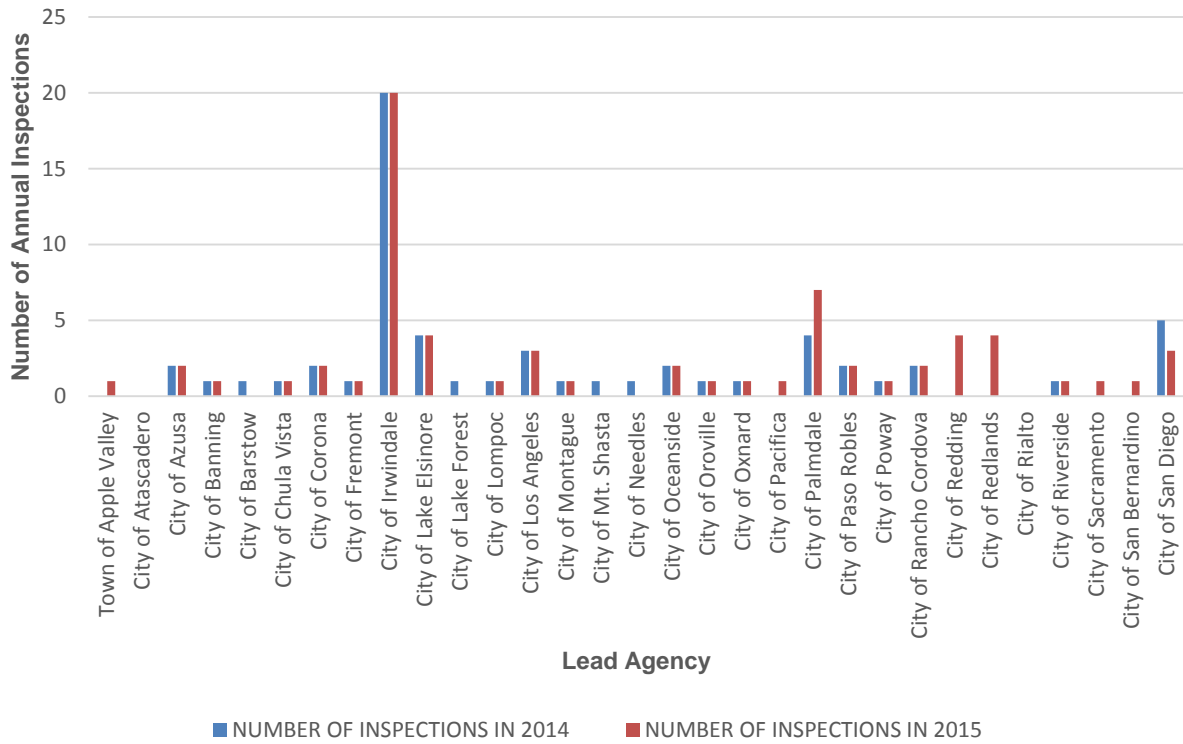
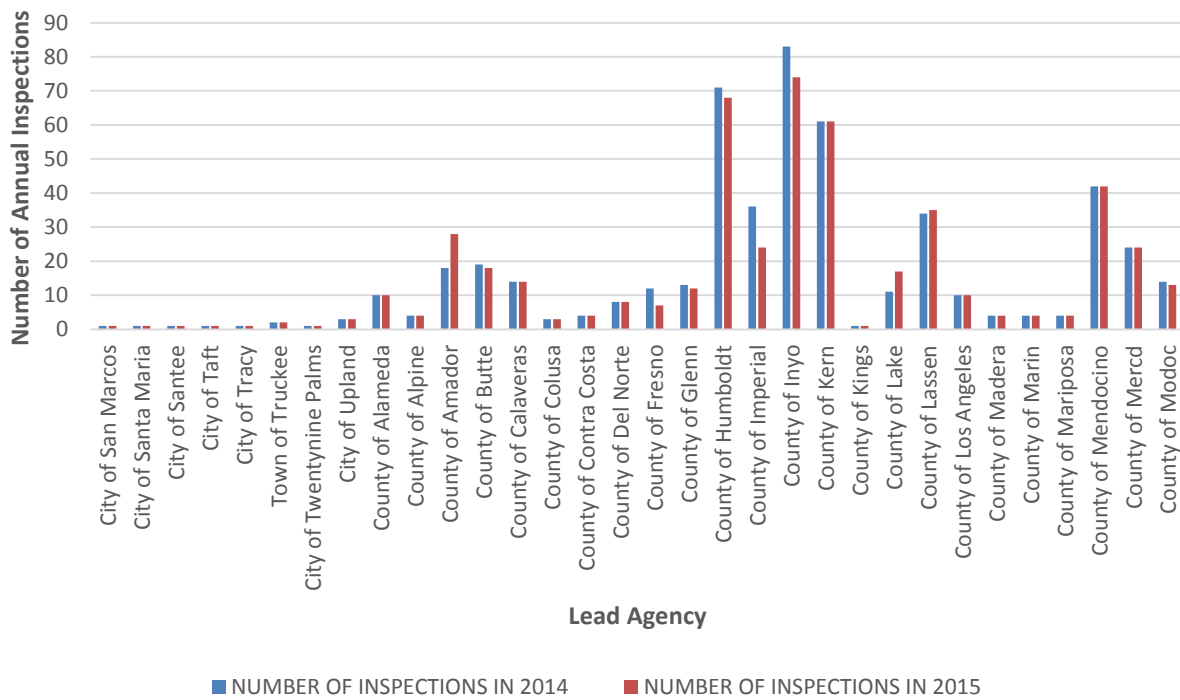
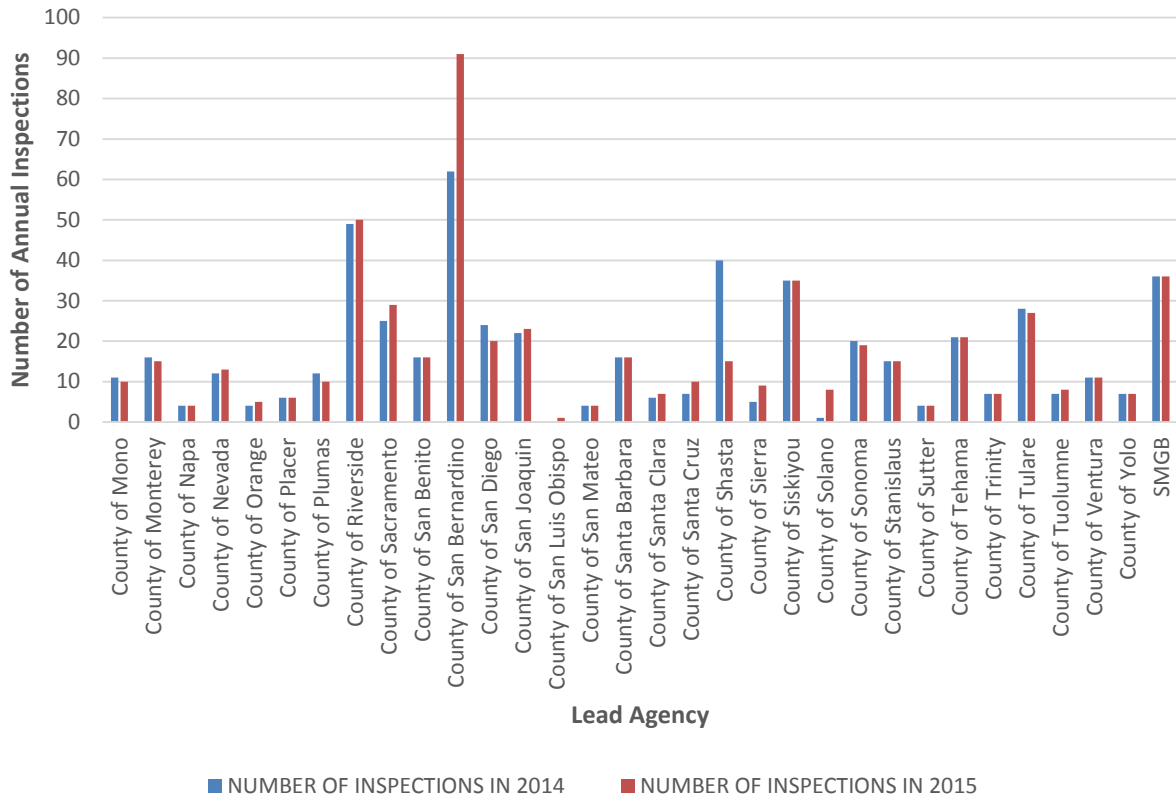


Chart 2b: Annual Inspections Performed by Lead Agency



See Appendix B, Table 5 for detailed information

Chart 2c: Annual Inspections Performed by Lead Agency



See Appendix B, Table 5 for detailed information

(3) **Information on idle mines and interim management plans approved by each lead agency**

Pursuant to PRC section 2727.1, “‘Idle’ means that an operator of a surface mining operation has curtailed production at the surface mining operation, with the intent to resume the surface mining operation at a future date, for a period of one year or more by more than 90 percent of its maximum annual mineral production within any of the last five years during which an interim management plan has not been approved.”

Data on idle mines for this report was reported by mine operators or their representatives in annual reports that are required to be submitted to their respective lead agency and the Division by July 1 of the year following the reporting year. If the mining operation is idle (PRC section 2727.1), the operator is required to submit an Interim Management Plan (IMP) for approval by the respective lead agency per PRC section 2770(h).

The number of idle mines, by statutory definition, and number of IMPs approved by each lead agency as of December 31, 2015, are presented in the charts below and in the informational tables in Appendix B, Table 6.

Chart 3a: Information on Idle Mines and Interim Management Plans Approved By Lead Agency

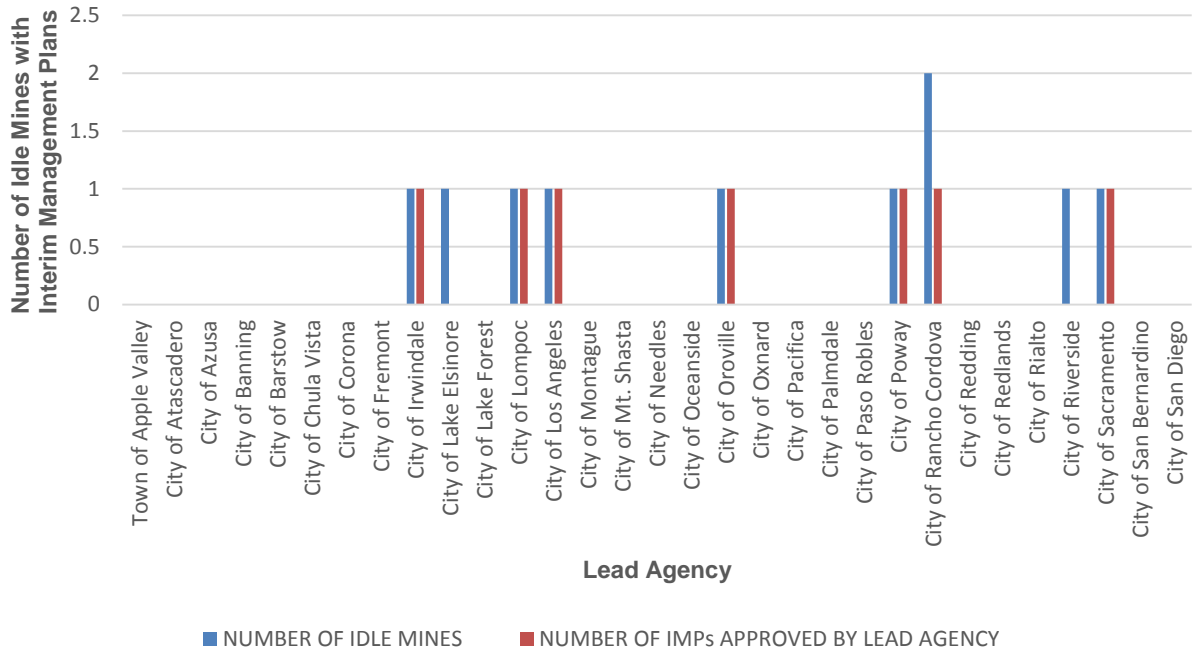
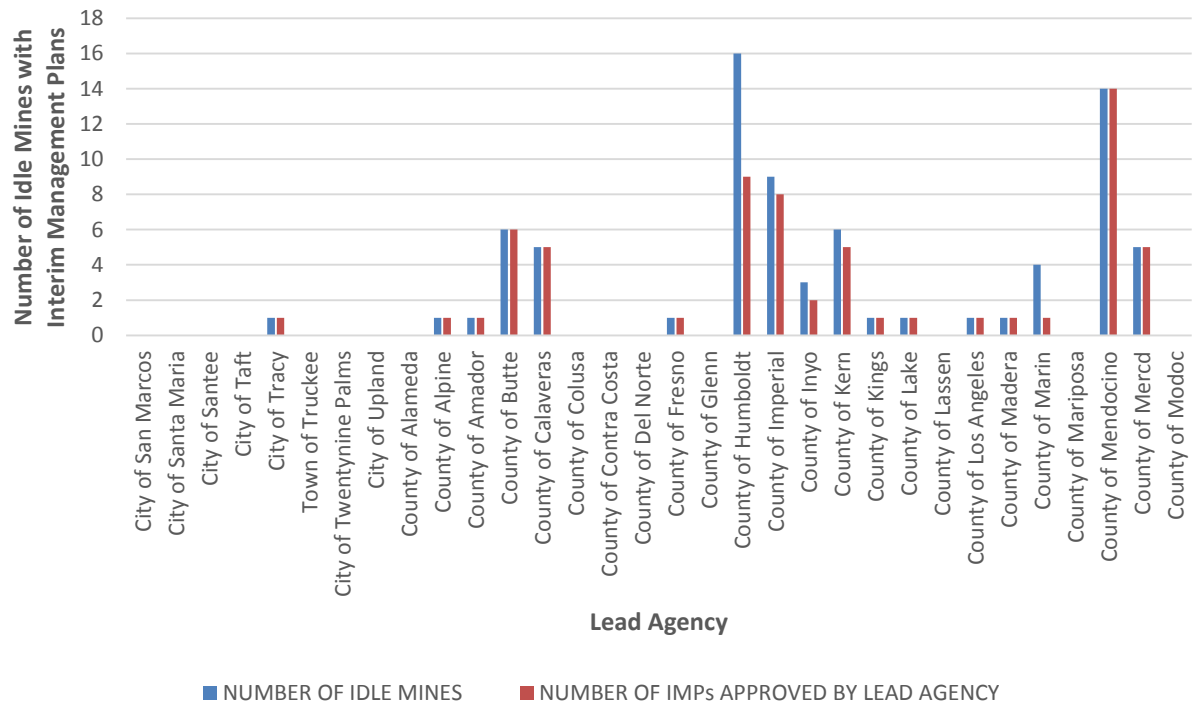
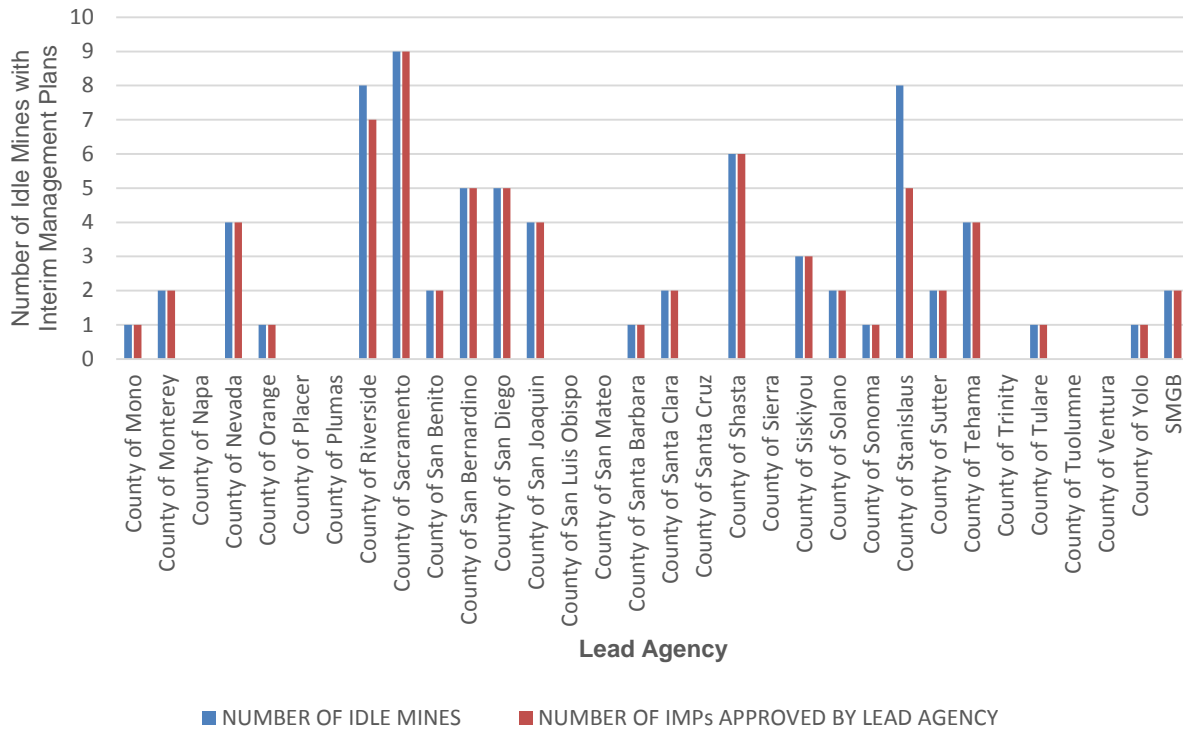


Chart 3b: Information on Idle Mines and Interim Management Plans Approved By Lead Agency



See Appendix B, Table 6 for detailed information

Chart 3c: Information on Idle Mines and Interim Management Plans Approved By Lead Agency

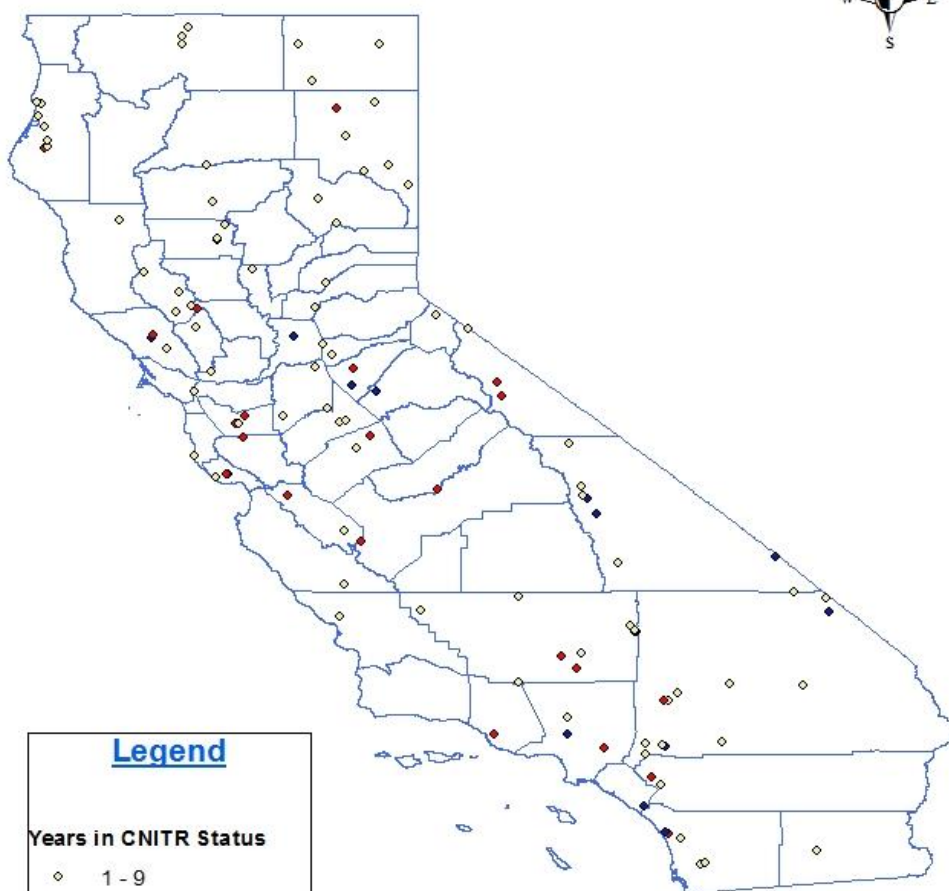


See Appendix B, Table 6 for detailed information

(4) **Number and location of mining operations that are no longer in operation with no intent to resume and are in the process of reclamation and how many years each of these mining operations has claimed that status**

The status of Closed No Intent to Resume (CNITR) is a fee status, defined by CCR section 3698(b) as "...surface mining operations which are no longer in operation with no intent to resume, which had no mineral production in the reporting calendar year...." Presented in the site map below, as well as in informational tables in Appendix B, Table 7 are the number and location of mining operations that have reported CNITR, reclamation in progress, as of December 31, 2015.

Mines with Closed No Intent To Resume (CNITR) Status and in the Process of Reclamation



Legend

Years in CNITR Status

- ◇ 1 - 9
- ◆ 10 - 18
- ◆ 19 - 33

County Boundaries



0 125 250 500 Miles



(5) Information on approved mineral resource management plans across the state from the Board

Mineral resource management policies (MRMP) apply to all local lead agencies within the state regardless of the presence of permitted surface mining operations within their jurisdiction. All local lead agencies are required by PRC section 2762 to establish MRMPs to be incorporated into their general plan that will:

- 1) Recognize mineral information classified by the State Geologist and transmitted by the Board.
- 2) Assist in the management of land use that affects access to areas of statewide and regional significance.
- 3) Emphasize the conservation and development of identified mineral deposits.

The State Geologist is required to classify mineral lands within the state according to a schedule and criteria developed by the Board pursuant to PRC section 2761(b). The Board is required to transmit to local governments information on mineral classified lands received from the State Geologist. Pursuant to PRC section 2762 and policies set forth by the Board, local governments are required to incorporate this mineral information into their general plans within 12 months of receiving this information. These Board policies are contained in Title 14, CCR sections 3675 and 3676. PRC section 2762, also requires local governments to submit their proposed MRMPs to the Board for review and comment.

In March 2007, the Board sent an informational request to lead agencies requesting copies of their respective MRMPs to ensure that the most recent versions were on file with the Board. Sixty-nine (69) lead agencies responded to the informational request, which are tabulated below in Table 1.

Table 1: Summary of MRMP Information from the Board

Table of Lead Agencies that responded to 2007 Informational Request from the Board		
City of Amador	City of Rialto	County of Kern
City of Anaheim	City of Ross	County of Los Angeles
City of Apple Valley	City of Sacramento	County of Madera
City of Atascadero	City of San Diego	County of Marin
City of Bakersfield	City of San Jacinto	County of Mariposa
City of Banning	City of Santa Paula	County of Mendocino
City of Chino	City of Santee	County of Merced
City of Chula Vista	City of Sutter	County of Napa
City of Corona	City of Tracy	County of Nevada
City of Folsom	City of Truckee	County of Placer
City of Healdsburg	City of Twenty-Nine Palms	County of Sacramento
City of Highland	City of Vista	County of San Benito
City of Irwindale	City of Watsonville	County of Santa Clara
City of Lake Forest	City of West Hollywood	County of Santa Cruz
City of Los Angeles	County of Amador	County of Sierra
City of Marina	County of Butte	County of Sonoma

Table of Lead Agencies that responded to 2007 Informational Request from the Board		
City of Pacifica	County of Contra Costa	County of Stanislaus
City of Palm Springs	County of Del Norte	County of Sutter
City of Palmdale	County of El Dorado	County of Trinity
City of Pleasanton	County of Glenn	County of Tulare
City of Pomona	County of Humboldt	County of Tuolumne
City of Rancho Cucamonga	County of Imperial	County of Ventura
City of Redding	County of Inyo	County of Yolo

(6) Number and location of mines with reclamation plans approved prior to the adoption of the 1993 reclamation standards

A reclamation plan is a plan to achieve a beneficial, or secondary end use of mined lands once mining ceases. Reclamation plans also ensure that adverse environmental effects are prevented or minimized, that mined lands are reclaimed to a usable condition that is readily adaptable for alternative land uses, and residual hazards to the public health and safety are eliminated.

The 1993 reclamation standards were adopted by the Board to specify minimum and verifiable statewide reclamation standards to allow for conformance with the intent of SMARA. They are required to be incorporated into reclamation plans approved after 1993 and are to be incorporated into pre-1993 approved reclamation plans that are substantially amended. California Assembly Bill 3551 (Sher, Chapter 1097, Statutes of 1990) amended PRC section 2773, requiring the adoption of these reclamation standards by the Board. The subjects for which the reclamation standards were adopted include:

- 1) Wildlife habitat
- 2) Backfilling, regrading, slope stability, and recontouring
- 3) Revegetation
- 4) Drainage, diversion structures, waterways, and erosion control
- 5) Prime and other agricultural land reclamation
- 6) Building, structure, and equipment removal
- 7) Stream protection
- 8) Topsoil salvage, maintenance, and redistribution
- 9) Tailing and mine waste management

The number and location of mines, as of December 31, 2015, with reclamation plans approved prior to the adoption of the 1993 reclamation standards is displayed in the charts below and in Table 8 in Appendix B.

Chart 4a: Number of Mines Approved Prior to 1993 Standards by Lead Agency

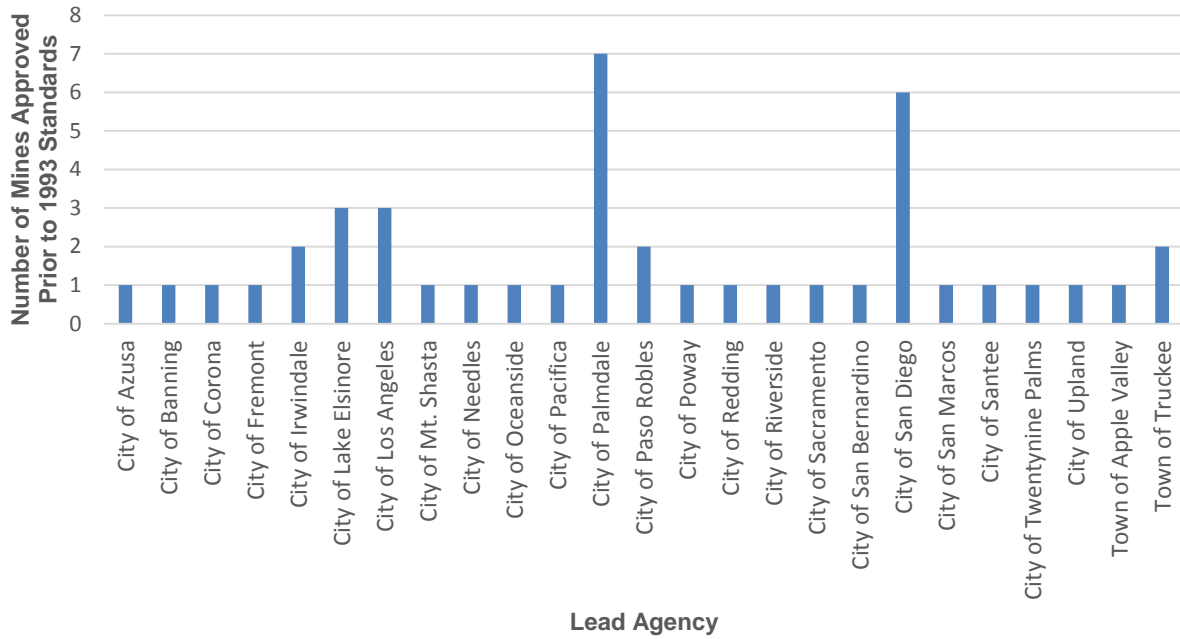
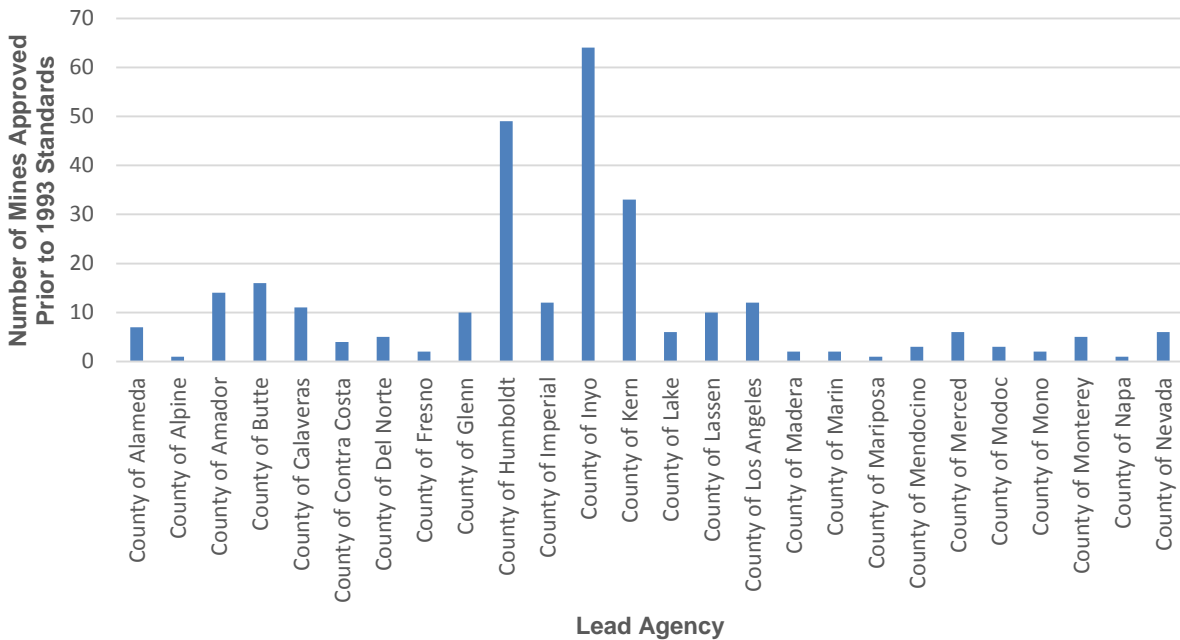
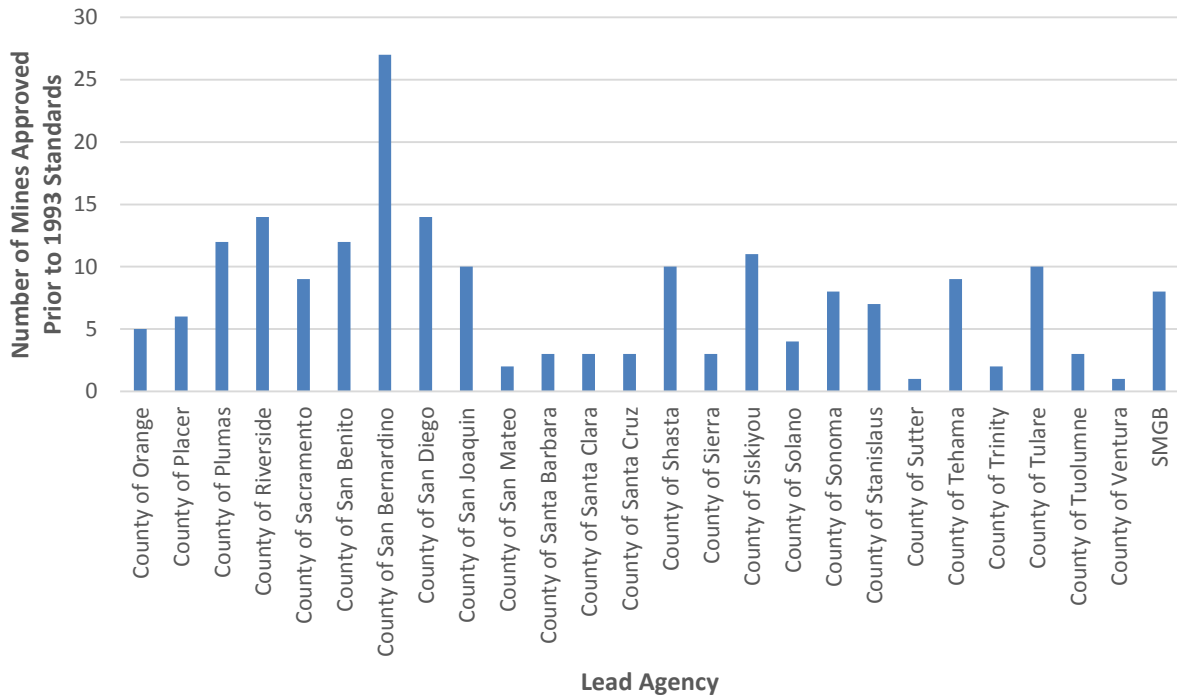


Chart 4b: Number of Mines Approved Prior to 1993 Standards by Lead Agency



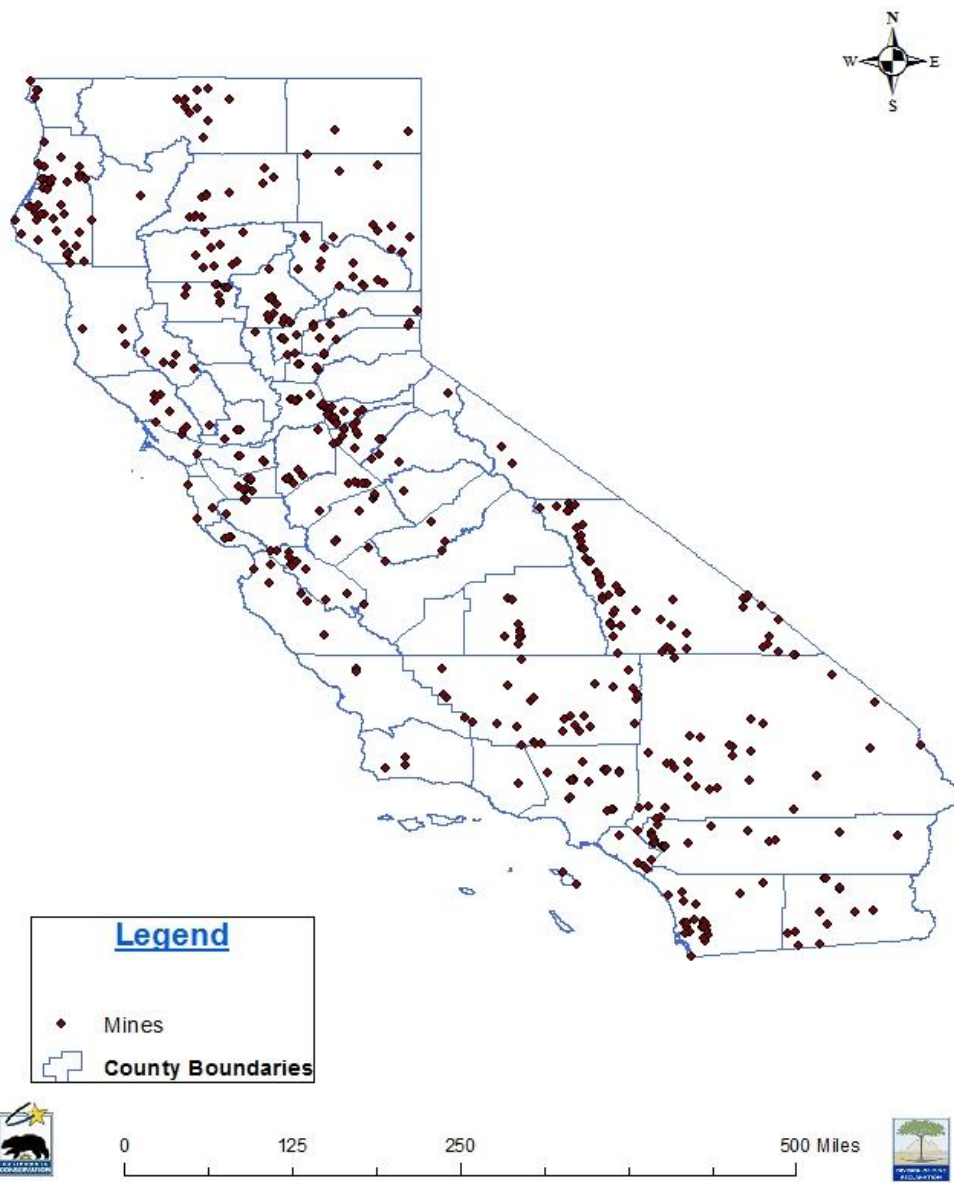
See Appendix B, Table 8 for detailed information

Chart 4c: Number of Mines Approved Prior to 1993 Standards by Lead Agency



See Appendix B, Table 8 for detailed information

Mines Approved Prior to 1993 Reclamation Standards



(7) Percentage of mining operations on the list published pursuant to subdivision (b) and the number and location of mining operations that have been placed on the list pursuant to clause (ii) of subparagraph (B) of paragraph (4) of subdivision (b)

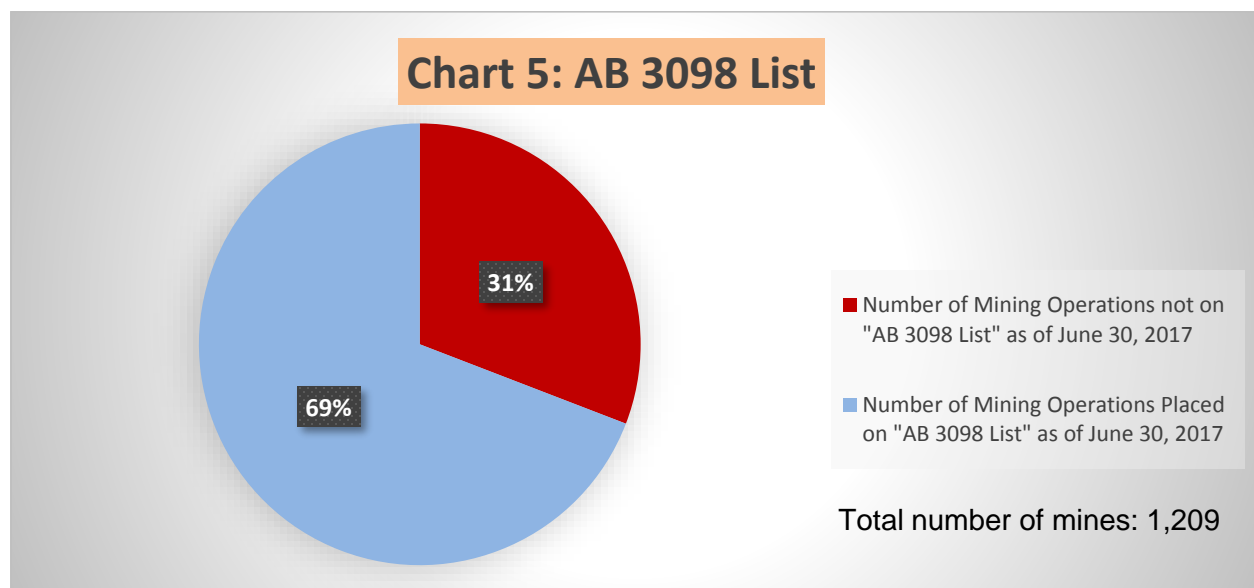
On a quarterly basis, the Division publishes a list of the mines regulated under SMARA that meet provisions set forth under California's PRC section 2717(b). This list is commonly referred to as the "AB 3098 List" in reference to California Assembly Bill 3098 (Sher, Chapter 1077, Statutes of 1992), passed by the California Legislature in 1992. Sections 10295.5 and 20676 of the Public Contract Code preclude mining operations that are not on the AB 3098 List from selling sand, gravel, aggregates, or other mined materials to state or local agencies. The intent of the AB 3098 List is to create a governmental preference to purchase mined materials from mining operations that are in compliance with statute.

For the Division to place a mining operation on the AB 3098 List, the operation must meet all of the following conditions:

- The operation has an approved reclamation plan.
- The operation has an approved financial assurance.
- The operation has filed its annual report.
- The operation has paid its reporting fee.
- The operation has had its annual inspection conducted by the lead agency which reflects the operation is in full compliance with the law.

The operation may be on the AB 3098 List if it has a pending appeal with the Board regarding its reclamation plan or financial assurance, provided its appeal has not been pending for more than 180 days.

The percentage of mining operations on the list published pursuant to PRC section 2717(b) is displayed in Chart 5 below:



The number and location of mining operations on the list pursuant to PRC section 2717 (b)(4)(B)(ii) as of June 30, 2017 are shown in Table 2 below:

Table 2: Number of Mining Operations complying with an Order to Comply and are on “AB 3098 List” Pursuant to Public Resources Code Section 2717(b)(4)(B)(ii)

Total Number of Mining Operations	Number of Mining Operations on "AB 3098 List" Pursuant to PRC section 2717(b)(4)(B)(ii) as of June 30, 2017	Lead Agency	Latitude & Longitude of the Mining Operation
1209	1	Merced County	40.2033, -123.5197

(8) Number of historic abandoned mines remediated by the Department and locations of known remaining hazards

PRC section 2717 (b) requests information about the number of historic abandoned mines remediated and the location of known remaining abandoned mine hazards. The Department maintains data collected by the Division only. Thus, this report summarizes data through the end of March 2017 for the number of mines remediated by the Department and for the location of known remaining hazards based on Department data.

The Division’s Abandoned Mine Lands Program is charged with inventorying and remediating legacy abandoned mines in California, primarily on public agency-owned lands. The Division estimates that 67 percent of the state’s abandoned mines are located on federal lands, 2 percent are on other public lands, and 31 percent are on private lands. About 40,000 abandoned mines (84 percent) are believed to contain features that pose physical safety hazards, such as dangerous openings or unstable structures, while another 5,200 abandoned mines (11 percent) may contain environmental hazards such as elevated heavy metal concentrations, and other contaminants of concern.

Between 1997 and 2017, the Division conducted field inventories of more than 66,500 mine features on more than 4,720 abandoned mine sites throughout California.

Number of mines remediated

Since 2002, the Division has remediated 1,340 physical safety hazards at legacy abandoned mines in 32 counties (primarily unsafe shafts and adits) on federal, state, and local public lands. Remediation methods included bat-compatible gate closures, polyurethane foam closures, backfills, fencing, and debris removal.

In addition, the Division has worked with landowning public agencies to remediate chemical hazards at nine legacy abandoned mines.

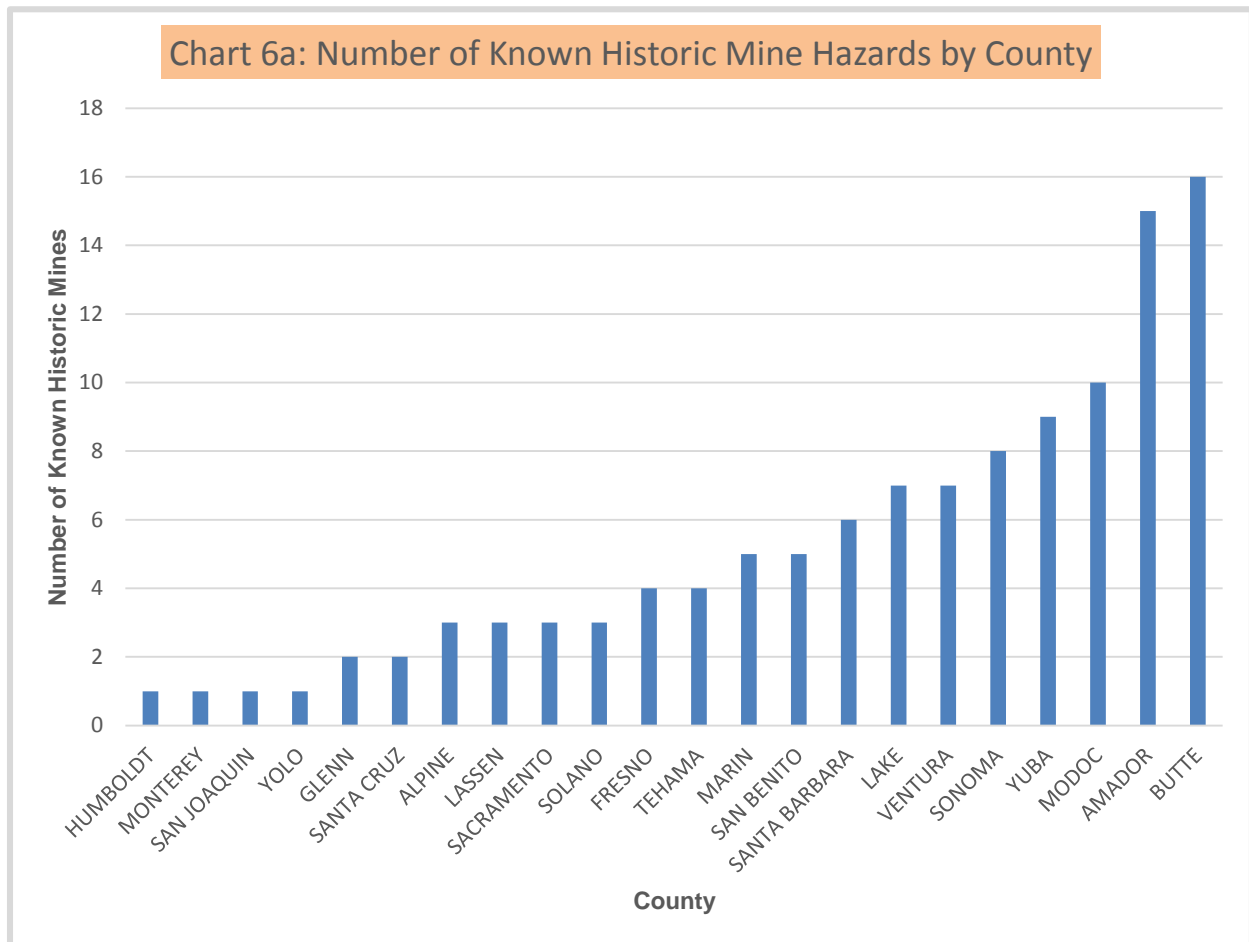
Locations and numbers of known remaining hazards

The Division has documented 9,489 features that present a physical safety hazard on publically-owned lands that have been identified as in need of remediation (out of a total of 61,500 inventoried features). These features include all highwalls, adits, and shafts that are open and ten or more feet deep.

The Division has identified 10 abandoned mine sites with potential chemical hazards on California agency-owned lands that require further investigation to determine whether any

remediation of contamination is needed. These mine sites are located in Imperial, Nevada, Plumas, San Bernardino, San Diego, and Sonoma counties.

The following charts display the number and location of historic mine features that are considered hazardous. See Appendix B and Table 9 for more information.



See Appendix B, Table 9 for detailed information

Chart 6b: Number of Known Historic Mine Hazards by County

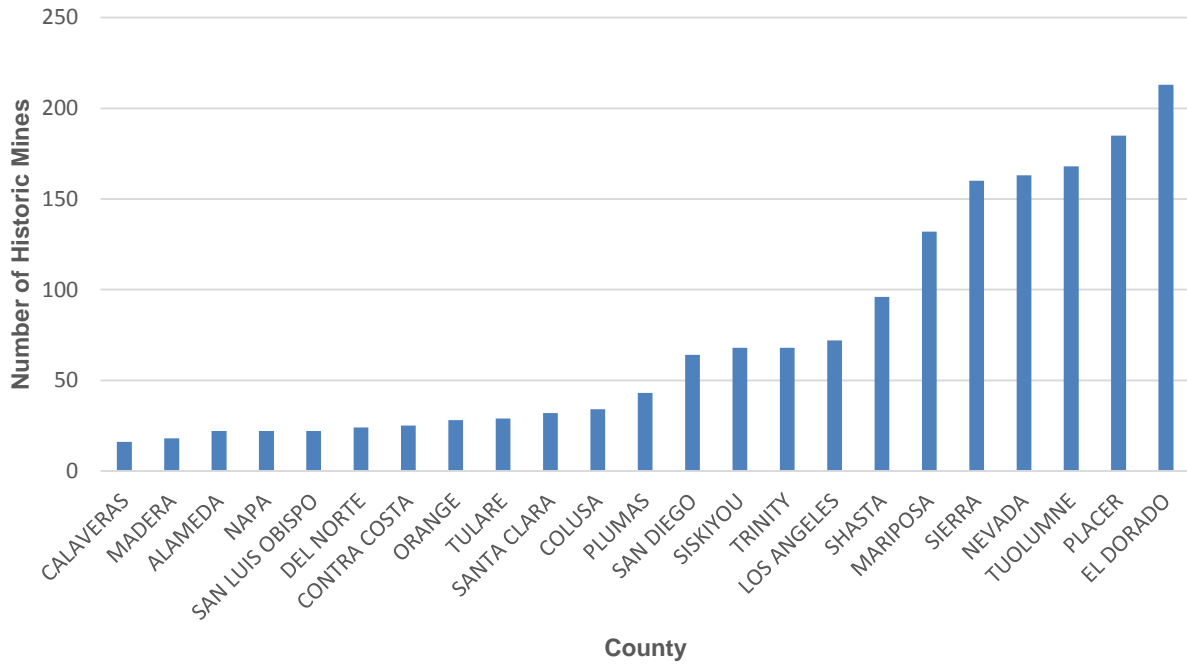
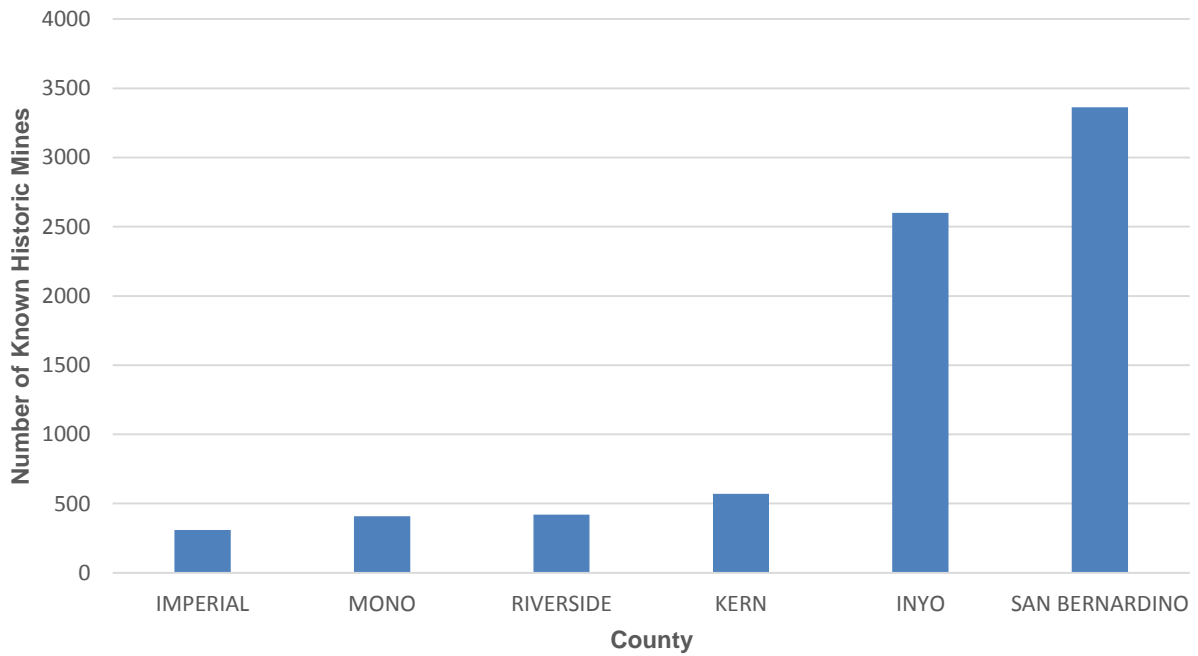


Chart 6c: Number of Known Historic Mine Hazards by County



See Appendix B, Table 9 for detailed information

(9) Number, types, and status of notices of violations and orders to comply issued by the Department, organized by location

The Legislature has given primary responsibility of SMARA enforcement to lead agencies across the state. Notices of Violations (NOVs) and Orders to Comply (OTC) may be issued to operators by the Department in cases where the Department determines that the lead agency has not taken appropriate enforcement action. NOVs and OTCs may be issued by the Department for an operator's non-compliance with their respective reclamation plan and/or other provisions of SMARA.

Between January 1, 2014, and December 31, 2015, the Department has informally assisted lead agencies with their local enforcement of SMARA and has not initiated formal enforcement actions, in the form of NOVs or OTCs, during this period.

(10) Number of administrative penalties issued by the Department and amounts, as well as information on the amounts actually collected by the Department, organized by location

Pursuant to the reporting requirements for mining operators under PRC section 2207, any operator who fails to comply with these requirements, including the failure to pay annual reporting fees, or knowingly provides incorrect or false information in reports required by this section, may be subject to an administrative penalty as provided in subdivision (c) of PRC section 2774.1. Administrative penalties may also be issued by the Department if a mine operator fails to comply with an OTC. The Department has issued administrative penalties for failure to file annual reports and/or pay annual mine fees.

Pursuant to PRC section 2774.1(c), an operator is subject to an order by the Director imposing an administrative penalty of not more than five thousand dollars (\$5,000) per day, assessed from the original date of noncompliance or from the date of the inspection when the violation was identified, at the discretion of the issuer of the NOV. Table 3 presents a summary of administrative penalties issued by the Department since January 1, 2014, through April 26, 2017.

Table 3: Summary of Administrative Penalties Issued by the Department

Location (Lead Agency)	Reporting Year	Penalty Assessed Year	Number of Admin Penalties assessed by the Division	Amount of Penalties	Amount Collected	Notes
Glenn County	2012	2014	1	\$ 15,913.52	\$ 0.00	1
Humboldt County	2012	2014	1	\$ 10,887.00	\$ 0.00	1
Inyo County	2012	2014	1	\$ 30,140.93	\$ 0.00	1, 2
Inyo County	2012	2014	1	\$ 13,406.67	\$ 0.00	1, 3
Kern County	2012	2014	1	\$ 500.00	\$ 0.00	1
Kern County	2012	2014	1	\$ 4,687.00	\$ 0.00	1, 3
Modoc County	2012	2014	1	\$ 8,094.00	\$ 0.00	1
San Bernardino County	2012	2014	1	\$ 10,107.67	\$ 0.00	1 3
Santa Barbara County	2012	2014	1	\$ 50,000.00	\$ 0.00	1
Tulare County	2013	2014	1	\$ 2,124.00	\$ 0.00	1
San Benito	2014	2016	1	\$ 5,128.00	\$ 0.00	1
San Diego County	2014	2016	1	\$ 3,999.84	\$ 3,999.84	1
TOTALS:	-	-	12	\$154,988.63	\$ 3,999.84	-

Note: Does not include:
1. Accrued interest to date
2. Bankrupt entity
3. Negotiation settlement

Appendix A – References and Data Sources

The following sources were used to compile the required information for this report:

- Surface Mining and Reclamation Act, as outlined in California Public Resources Code and the California Code of Regulations (CCR) for Surface Mining and Reclamation Act of 1975 (Department of Conservation publication, May 2015):
http://www.conservation.ca.gov/smgb/Regulations/Documents/SMARA_Statutes_2015.pdf
- The Division of Mine Reclamation's electronic databases and mine files.
- Lead agency validated data spreadsheets.
- Department of Conservation. *2000, California's Abandoned Mines: A Report on the Magnitude and Scope of the Issue in the State*. Office of Mine Reclamation, Abandoned Mine Lands Program, Sacramento, CA.
- Department of Conservation. *2009, Inventory and Assessment of Abandoned Mines on California Agency-Owned Lands*. Office of Mine Reclamation, Abandoned Mine Lands Program, Sacramento, CA.
- California Department of Conservation Division of Mine Reclamation webpage:
<http://www.conservation.ca.gov/dmr>.
- California Department of Conservation State Mining and Geology Board webpage:
<http://www.conservation.ca.gov/smgb>.
- Cover Photo: The San Rafael Rock Quarry in Marin County, which supplies sandstone, aggregate, shale, and clay. Following completion of mining operations, the pit will become a harbor.

Appendix B – Tables

Table 4: Financial Assurance Cost Estimates (FACES) Approved by Lead Agency

LEAD AGENCY	NUMBER OF FACES APPROVED IN 2014	NUMBER OF FACES APPROVED IN 2015
CITIES		
City of Atascadero	0	0
City of Azusa	2	2
City of Banning	1	1
City of Barstow	1	1
City of Chula Vista	1	1
City of Corona	2	2
City of Fremont	0	1
City of Irwindale	11	9
City of Lake Elsinore	3	3
City of Lake Forest	1	0
City of Lompoc	1	1
City of Los Angeles	3	3
City of Montague	1	1
City of Mt. Shasta	1	1
City of Needles	0	0
City of Oceanside	1	1
City of Oroville	1	1
City of Oxnard	0	0
City of Pacifica	0	1
City of Palmdale	5	7
City of Paso Robles	1	1
City of Poway	1	1
City of Rancho Cordova	2	2
City of Redding	2	2
City of Redlands	1	2
City of Rialto	0	1
City of Riverside	0	0
City of Sacramento	1	1
City of San Bernardino	0	1
City of San Diego	4	3
City of San Marcos	1	1
City of Santa Maria	1	0
City of Santee	0	0
City of Taft	1	1
City of Tracy	1	1

LEAD AGENCY	NUMBER OF FACEs APPROVED IN 2014	NUMBER OF FACEs APPROVED IN 2015
City of Twenty-Nine Palms	0	0
City of Upland	3	3
Town of Apple Valley	0	1
Town of Truckee	2	2
COUNTIES		
County of Alameda	11	11
County of Alpine	3	0
County of Amador	22	22
County of Butte	16	7
County of Calaveras	6	6
County of Colusa	2	2
County of Contra Costa	4	4
County of Del Norte	9	8
County of Fresno	7	8
County of Glenn	10	10
County of Humboldt	56	63
County of Imperial	34	27
County of Inyo	86	82
County of Kern	44	42
County of Kings	1	1
County of Lake	9	13
County of Lassen	29	28
County of Los Angeles	10	12
County of Madera	4	3
County of Marin	4	4
County of Mariposa	2	2
County of Mendocino	31	29
County of Merced	23	23
County of Modoc	15	10
County of Mono	13	8
County of Monterey	16	16
County of Napa	6	2
County of Nevada	8	7
County of Orange	5	5
County of Placer	3	5
County of Plumas	5	6
County of Riverside	45	51
County of Sacramento	23	24

LEAD AGENCY	NUMBER OF FACEs APPROVED IN 2014	NUMBER OF FACEs APPROVED IN 2015
County of San Benito	13	16
County of San Bernardino	53	64
County of San Diego	23	20
County of San Joaquin	22	28
County of San Luis Obispo	1	1
County of San Mateo	1	1
County of Santa Barbara	19	16
County of Santa Clara	6	7
County of Santa Cruz	4	3
County of Shasta	30	27
County of Sierra	2	7
County of Siskiyou	24	21
County of Solano	3	6
County of Sonoma	14	18
County of Stanislaus	15	15
County of Sutter	8	0
County of Tehama	24	21
County of Trinity	6	5
County of Tulare	23	21
County of Tuolumne	7	8
County of Ventura	11	9
County of Yolo	6	7
SMGB		
SMGB (Board)	11	23
TOTAL:	944	944

Table 5: Annual Mine Inspections by Lead Agency

LEAD AGENCY	NUMBER OF INSPECTIONS IN 2014	NUMBER OF INSPECTIONS IN 2015
CITIES		
City of Atascadero	0	0
City of Azusa	2	2
City of Banning	1	1
City of Barstow	1	0
City of Chula Vista	1	1

LEAD AGENCY	NUMBER OF INSPECTIONS IN 2014	NUMBER OF INSPECTIONS IN 2015
City of Corona	2	2
City of Fremont	1	1
City of Irwindale	20	20
City of Lake Elsinore	4	4
City of Lake Forest	1	0
City of Lompoc	1	1
City of Los Angeles	3	3
City of Montague	1	1
City of Mt. Shasta	1	0
City of Needles	1	0
City of Oceanside	2	2
City of Oroville	1	1
City of Oxnard	1	1
City of Pacifica	0	1
City of Palmdale	4	7
City of Paso Robles	2	2
City of Poway	1	1
City of Rancho Cordova	2	2
City of Redding	0	4
City of Redlands	0	4
City of Rialto	0	0
City of Riverside	1	1
City of Sacramento	0	1
City of San Bernardino	0	1
City of San Diego	5	3
City of San Marcos	1	1
City of Santa Maria	1	1
City of Santee	1	1
City of Taft	1	1
City of Tracy	1	1
City of Twenty-Nine Palms	1	1
City of Upland	3	3
Town of Apple Valley	0	1
Town of Truckee	2	2
COUNTIES		
County of Alameda	10	10
County of Alpine	4	4
County of Amador	18	28
County of Butte	19	18
County of Calaveras	14	14
County of Colusa	3	3
County of Contra Costa	4	4

LEAD AGENCY	NUMBER OF INSPECTIONS IN 2014	NUMBER OF INSPECTIONS IN 2015
County of Del Norte	8	8
County of Fresno	12	7
County of Glenn	13	12
County of Humboldt	71	68
County of Imperial	36	24
County of Inyo	83	74
County of Kern	61	61
County of Kings	1	1
County of Lake	11	17
County of Lassen	34	35
County of Los Angeles	10	10
County of Madera	4	4
County of Marin	4	4
County of Mariposa	4	4
County of Mendocino	42	42
County of Merced	24	24
County of Modoc	14	13
County of Mono	11	10
County of Monterey	16	15
County of Napa	4	4
County of Nevada	12	13
County of Orange	4	5
County of Placer	6	6
County of Plumas	12	10
County of Riverside	49	50
County of Sacramento	25	29
County of San Benito	16	16
County of San Bernardino	62	91
County of San Diego	24	20
County of San Joaquin	22	23
County of San Luis Obispo	0	1
County of San Mateo	4	4
County of Santa Barbara	16	16
County of Santa Clara	6	7
County of Santa Cruz	7	10
County of Shasta	40	15
County of Sierra	7	7
County of Siskiyou	35	35
County of Solano	1	8
County of Sonoma	20	19
County of Stanislaus	15	15
County of Sutter	4	4

LEAD AGENCY	NUMBER OF INSPECTIONS IN 2014	NUMBER OF INSPECTIONS IN 2015
County of Tehama	21	21
County of Trinity	7	7
County of Tulare	28	27
County of Tuolumne	7	8
County of Ventura	11	11
County of Yolo	7	7
SMGB		
SMGB (Board)	36	36
TOTAL:	1,109	1,118

Table 6: Idle Mines and Interim Management Plans (IMPs) Approved by Lead Agency

LEAD AGENCY	NUMBER OF IDLE MINES	NUMBER OF IMPs APPROVED BY LEAD AGENCY
CITIES		
City of Atascadero	0	0
City of Azusa	0	0
City of Banning	0	0
City of Barstow	0	0
City of Chula Vista	0	0
City of Corona	0	0
City of Fremont	0	0
City of Irwindale	1	1
City of Lake Elsinore	1	0
City of Lake Forest	0	0
City of Lompoc	1	1
City of Los Angeles	1	1
City of Montague	0	0
City of Mt. Shasta	0	0
City of Needles	0	0
City of Oceanside	0	0
City of Oroville	1	1
City of Oxnard	0	0
City of Pacifica	0	0
City of Palmdale	0	0
City of Paso Robles	0	0
City of Poway	1	1
City of Rancho Cordova	2	1
City of Redding	0	0
City of Redlands	0	0
City of Rialto	0	0

LEAD AGENCY	NUMBER OF IDLE MINES	NUMBER OF IMPs APPROVED BY LEAD AGENCY
City of Riverside	1	0
City of Sacramento	1	1
City of San Bernardino	0	0
City of San Diego	0	0
City of San Marcos	0	0
City of Santa Maria	0	0
City of Santee	0	0
City of Taft	0	0
City of Tracy	1	1
City of Twenty-Nine Palms	0	0
City of Upland	0	0
Town of Apple Valley	0	0
Town of Truckee	0	0
COUNTIES		
County of Alameda	0	0
County of Alpine	1	1
County of Amador	1	1
County of Butte	6	6
County of Calaveras	5	5
County of Colusa	0	0
County of Contra Costa	0	0
County of Del Norte	0	0
County of Fresno	1	1
County of Glenn	0	0
County of Humboldt	16	9
County of Imperial	9	8
County of Inyo	3	2
County of Kern	6	5
County of Kings	1	1
County of Lake	1	1
County of Lassen	0	0
County of Los Angeles	1	1
County of Madera	1	1
County of Marin	4	1
County of Mariposa	0	0
County of Mendocino	14	14
County of Merced	5	5
County of Modoc	0	0
County of Mono	1	1
County of Monterey	2	2
County of Napa	0	0

LEAD AGENCY	NUMBER OF IDLE MINES	NUMBER OF IMPs APPROVED BY LEAD AGENCY
County of Nevada	4	4
County of Orange	1	1
County of Placer	0	0
County of Plumas	0	0
County of Riverside	8	7
County of Sacramento	9	9
County of San Benito	2	2
County of San Bernardino	5	5
County of San Diego	5	5
County of San Joaquin	4	4
County of San Luis Obispo	0	0
County of San Mateo	0	0
County of Santa Barbara	1	1
County of Santa Clara	2	2
County of Santa Cruz	0	0
County of Shasta	6	6
County of Sierra	1	0
County of Siskiyou	3	3
County of Solano	2	2
County of Sonoma	1	1
County of Stanislaus	8	5
County of Sutter	2	2
County of Tehama	4	4
County of Trinity	0	0
County of Tulare	1	1
County of Tuolumne	0	0
County of Ventura	0	0
County of Yolo	1	1
SMGB		
SMGB (Board)	2	2
TOTAL:	150	132

Table 7: Closed No Intent to Resume (CNITR) Mines in Reclamation

LOCATION OF MINING OPERATION (Latitude & Longitude in Decimals)	LEAD AGENCY	MINE IDENTIFICATION NUMBER	NUMBER OF YEARS IN CNITR STATUS AND IN THE PROCESS OF RECLAMATION
CITIES			
33.7169, -117.3769	City of Elsinore	91-33-0022	4

LOCATION OF MINING OPERATION (Latitude & Longitude in Decimals)	LEAD AGENCY	MINE IDENTIFICATION NUMBER	NUMBER OF YEARS IN CNTR STATUS AND IN THE PROCESS OF RECLAMATION
37.5911, -121.9547	City of Fremont	91-01-0014	16
34.1119, -117.9831	City of Irwindale	91-19-0013	14
34.2461, -118.3761	City of Los Angeles	91-19-0022	22
33.2056, -117.3228	City of Oceanside	91-37-0012	24
33.1806, -117.3006	City of Oceanside	91-37-0016	18
34.2531, -119.1750	City of Oxnard	91-56-0007	18
33.1281, -117.1661	City of San Marcos	91-37-0015	9
COUNTIES			
37.6881, -121.8558	County of Alameda	91-01-0002	16
37.5978, -121.9189	County of Alameda	91-01-0003	5
38.7708, -119.7917	County of Alpine	91-02-0004	5
38.3361, -120.9131	County of Amador	91-03-0009	4
38.4544, -121.0236	County of Amador	91-03-0027	2
38.0069, -120.6989	County of Calaveras	91-05-0002	20
38.1839, -120.6881	County of Calaveras	91-05-0010	12
36.8869, -119.7861	County of Fresno	91-10-0004	11
39.5781, -122.1581	County of Glenn	91-11-0005	5
39.6000, -122.1600	County of Glenn	91-11-0013	5
39.7447, -122.0739	County of Glenn	91-11-0019	5
41.0647, -124.0919	County of Humboldt	91-12-0003	8
40.8019, -124.0169	County of Humboldt	91-12-0008	8
40.9078, -124.0836	County of Humboldt	91-12-0030	5
41.0447, -124.0458	County of Humboldt	91-12-0044	8
40.5628, -124.0242	County of Humboldt	91-12-0071	14
40.6417, -123.9811	County of Humboldt	91-12-0072	7
40.5867, -123.9903	County of Humboldt	91-12-0074	7
33.0083, -115.6958	County of Imperial	91-13-0076	2
37.3819, -118.3711	County of Inyo	91-14-0004	4
36.1639, -116.1331	County of Inyo	91-14-0026	33
36.8214, -118.2175	County of Inyo	91-14-0032	4
36.6194, -118.0758	County of Inyo	91-14-0057	24
36.7958, -118.1667	County of Inyo	91-14-0088	22
36.9189, -118.2369	County of Inyo	91-14-0100	4
36.1000, -117.8361	County of Inyo	91-14-0108	3
34.9586, -118.2869	County of Kern	91-15-0005	16
35.7431, -118.9025	County of Kern	91-15-0012	8
35.0853, -118.4475	County of Kern	91-15-0029	17
35.3569, -117.6611	County of Kern	91-15-0033	9
35.4250, -117.7000	County of Kern	91-15-0048	9
35.3506, -117.6389	County of Kern	91-15-0075	9

LOCATION OF MINING OPERATION (Latitude & Longitude in Decimals)	LEAD AGENCY	MINE IDENTIFICATION NUMBER	NUMBER OF YEARS IN CNTR STATUS AND IN THE PROCESS OF RECLAMATION
35.3667, -117.6500	County of Kern	91-15-0086	8
34.8193, -118.9078	County of Kern	91-15-0093	9
35.5825, -119.9675	County of Kern	91-15-0109	5
35.1278, -118.2336	County of Kern	91-15-0051	4
39.0078, -122.5606	County of Lake	91-17-0006	2
39.2339, -122.9456	County of Lake	91-17-0031	7
38.8061, -122.5925	County of Lake	91-17-0034	6
38.8667, -122.4389	County of Lake	91-17-0041	4
40.9950, -120.8750	County of Lassen	91-18-0012	18
40.1639, -120.0944	County of Lassen	91-18-0024	2
40.7031, -120.7753	County of Lassen	91-18-0031	4
41.0553, -120.4625	County of Lassen	91-18-0032	5
40.3181, -120.5667	County of Lassen	91-18-0040	6
40.3900, -120.3069	County of Lassen	91-18-0041	4
34.4311, -118.3800	County of Los Angeles	91-19-0036	4
39.7844, -123.2097	County of Mendocino	91-23-0016	4
37.4742, -120.5094	County of Merced	91-24-0004	15
37.3375, -120.6472	County of Merced	91-24-0050	1
41.2819, -121.1342	County of Modoc	91-25-0001	1
41.6861, -120.4000	County of Modoc	91-25-0024	1
41.6778, -121.2786	County of Modoc	91-25-0027	3
38.0500, -119.1450	County of Mono	91-26-0011	17
37.8992, -119.0908	County of Mono	91-26-0016	16
38.6175, -119.4547	County of Mono	91-26-0024	5
35.8647, -120.7936	County of Monterey	91-27-0026	2
38.8342, -122.3661	County of Napa	91-28-0003	16
38.1644, -122.2272	County of Napa	91-28-0005	8
38.6428, -122.3775	County of Napa	91-28-0007	5
39.1131, -120.9881	County of Nevada	91-29-0007	1
33.4797, -117.5581	County of Orange	91-30-0009	24
38.8569, -121.1050	County of Placer	91-31-0006	2
40.0211, -121.0647	County of Plumas	91-32-0005	2
33.7889, -117.4689	County of Riverside	91-33-0013	11
38.5353, -121.3306	County of Sacramento	91-34-0009	5
38.5411, -121.3233	County of Sacramento	91-34-0027	21
38.5386, -121.3281	County of Sacramento	91-34-0028	6
36.3369, -120.6139	County of San Benito	91-35-0001	15
36.4525, -120.7928	County of San Benito	91-35-0005	5
36.8194, -121.3944	County of San Benito	91-35-0011	12
34.1211, -117.3322	County of San Bernardino	91-36-0011	23

LOCATION OF MINING OPERATION (Latitude & Longitude in Decimals)	LEAD AGENCY	MINE IDENTIFICATION NUMBER	NUMBER OF YEARS IN CNTR STATUS AND IN THE PROCESS OF RECLAMATION
34.1381, -117.3572	County of San Bernardino	91-36-0012	6
34.1553, -117.5436	County of San Bernardino	91-36-0018	6
35.5706, -115.5667	County of San Bernardino	91-36-0026	23
34.6169, -117.2981	County of San Bernardino	91-36-0037	4
34.6200, -117.3425	County of San Bernardino	91-36-0047	11
34.8039, -116.6311	County of San Bernardino	91-36-0077	2
35.7853, -115.9356	County of San Bernardino	91-36-0126	8
34.1636, -116.7106	County of San Bernardino	91-36-0138	5
34.7014, -117.2025	County of San Bernardino	91-36-0142	5
35.7278, -115.6000	County of San Bernardino	91-36-0156	4
34.7881, -115.8425	County of San Bernardino	91-36-0160	6
32.8664, -116.8967	County of San Diego	91-37-0034	8
32.8569, -116.9506	County of San Diego	91-37-0063	3
37.6811, -121.4469	County of San Joaquin	91-39-0014	5
37.7600, -120.9728	County of San Joaquin	91-39-0019	7
38.2008, -121.0947	County of San Joaquin	91-39-0034	6
35.5150, -120.8331	County of San Luis Obispo	91-40-0002	1
37.2461, -122.3986	County of San Mateo	91-41-0004	7
37.4500, -121.8717	County of Santa Clara	91-43-0002	11
37.0519, -122.0447	County of Santa Cruz	91-44-0002	13
37.0611, -122.0542	County of Santa Cruz	91-44-0004	15
37.0278, -122.1686	County of Santa Cruz	91-44-0005	7
40.3817, -122.2753	County of Shasta	91-45-0043	2
39.7575, -120.8722	County of Sierra	91-46-0002	7
41.7603, -122.5408	County of Siskiyou	91-47-0008	2
41.6850, -122.5389	County of Siskiyou	91-47-0019	6
41.8650, -122.4608	County of Siskiyou	91-47-0041	6
38.5481, -122.8531	County of Sonoma	91-49-0003	22
38.4069, -122.6981	County of Sonoma	91-49-0042	5
38.5483, -122.8525	County of Sonoma	91-49-0051	15
38.5236, -122.8597	County of Sonoma	91-49-0054	19
37.6250, -120.7781	County of Stanislaus	91-50-0003	8
37.6194, -120.8333	County of Stanislaus	91-50-0018	9
39.2639, -121.7750	County of Sutter	91-51-0002	3
39.9806, -122.2036	County of Tehama	91-52-0037	6
37.9436, -120.4411	County of Tuolumne	91-55-0001	22
SMGB			
37.9369, -122.4039	SMGB	91-07-0006	8
34.0311, -117.5461	SMGB	91-33-0029	3
TOTAL:		118 MINES	

Table 8: Mines with Reclamation Plans Approved Before 1993 Standards

LOCATION OF MINING OPERATION (Latitude & Longitude in Decimals)	LEAD AGENCY	MINE ID
CITIES		
34.1200, -117.9250	City of Azusa	91-19-0007
33.9431, -116.8631	City of Banning	91-33-0012
33.8681, -117.5139	City of Corona	91-33-0005
37.5911, -121.9547	City of Fremont	91-01-0014
34.1250, -117.9306	City of Irwindale	91-19-0006
34.1119, -117.9831	City of Irwindale	91-19-0013
33.7289, -117.3900	City of Lake Elsinore	91-33-0015
33.7169, -117.3769	City of Lake Elsinore	91-33-0022
33.7308, -117.3839	City of Lake Elsinore	91-33-0073
34.2511, -118.3822	City of Los Angeles	91-19-0017
34.2397, -118.4036	City of Los Angeles	91-19-0019
34.2461, -118.3761	City of Los Angeles	91-19-0022
41.3475, -122.3394	City of Mt. Shasta	91-47-0015
34.8128, -114.6028	City of Needles	91-36-0102
33.2056, -117.3228	City of Oceanside	91-37-0012
37.6131, -122.4947	City of Pacifica	91-41-0001
34.5469, -117.9869	City of Palmdale	91-19-0001
34.5469, -117.9939	City of Palmdale	91-19-0002
34.5400, -118.0031	City of Palmdale	91-19-0008
34.5469, -118.0161	City of Palmdale	91-19-0020
34.5381, -118.0011	City of Palmdale	91-19-0026
34.5550, -117.9889	City of Palmdale	91-19-0033
34.6289, -118.2519	City of Palmdale	91-19-0040
35.6306, -120.6847	City of Paso Robles	91-40-0023
35.6000, -120.6900	City of Paso Robles	91-40-0040
32.9278, -117.0394	City of Poway	91-37-0030
40.5089, -122.4119	City of Redding	91-45-0019
33.9578, -117.4353	City of Riverside	91-33-0077
38.5422, -121.4044	City of Sacramento	91-34-0021
34.1361, -117.3561	City of San Bernardino	91-36-0137
32.8978, -117.1650	City of San Diego	91-37-0007
32.8581, -117.1300	City of San Diego	91-37-0013
32.8050, -117.0931	City of San Diego	91-37-0024
32.7800, -117.1431	City of San Diego	91-37-0026
32.9000, -117.1311	City of San Diego	91-37-0029
32.5419, -117.0750	City of San Diego	91-37-0037
33.1281, -117.1661	City of San Marcos	91-37-0015
32.8583, -116.9617	City of Santee	91-37-0025

LOCATION OF MINING OPERATION (Latitude & Longitude in Decimals)	LEAD AGENCY	MINE ID
34.1181, -115.9819	City of Twenty-Nine Palms	91-36-0055
34.1331, -117.6331	City of Upland	91-36-0003
34.5739, -117.2581	Town of Apple Valley	91-36-0022
39.3333, -120.1228	Town of Truckee	91-29-0004
39.3681, -120.1061	Town of Truckee	91-29-0005
COUNTIES		
37.6881, -121.8558	County of Alameda	91-01-0002
37.5481, -121.8100	County of Alameda	91-01-0005
37.5731, -121.8683	County of Alameda	91-01-0007
37.6719, -121.8322	County of Alameda	91-01-0009
37.6750, -121.8278	County of Alameda	91-01-0010
37.5747, -121.8758	County of Alameda	91-01-0013
37.5650, -121.9131	County of Alameda	91-01-0016
38.6100, -119.7031	County of Alpine	91-02-0001
38.3761, -120.9744	County of Amador	91-03-0001
38.4200, -121.0011	County of Amador	91-03-0002
38.4250, -120.6239	County of Amador	91-03-0003
38.3250, -120.9500	County of Amador	91-03-0004
38.4119, -120.8139	County of Amador	91-03-0006
38.3331, -120.9500	County of Amador	91-03-0008
38.3361, -120.9131	County of Amador	91-03-0009
38.3689, -120.9969	County of Amador	91-03-0011
38.2950, -120.9053	County of Amador	91-03-0012
38.3369, -120.9250	County of Amador	91-03-0014
38.2769, -120.9050	County of Amador	91-03-0015
38.4339, -121.0231	County of Amador	91-03-0016
38.4589, -120.9503	County of Amador	91-03-0017
38.3889, -120.6639	County of Amador	91-03-0019
39.6389, -121.5875	County of Butte	91-04-0001
39.3589, -121.4019	County of Butte	91-04-0002
39.4161, -121.6211	County of Butte	91-04-0004
39.4650, -121.5831	County of Butte	91-04-0005
39.3803, -121.4117	County of Butte	91-04-0006
39.4431, -121.6481	County of Butte	91-04-0007
39.4169, -121.6211	County of Butte	91-04-0008
39.9303, -121.6203	County of Butte	91-04-0010
39.6006, -121.5928	County of Butte	91-04-0011
39.6181, -121.6311	County of Butte	91-04-0012
39.6292, -121.6083	County of Butte	91-04-0014
39.5658, -121.5450	County of Butte	91-04-0015

LOCATION OF MINING OPERATION (Latitude & Longitude in Decimals)	LEAD AGENCY	MINE ID
39.4000, -121.6247	County of Butte	91-04-0018
39.3672, -121.4850	County of Butte	91-04-0019
39.4053, -121.4550	County of Butte	91-04-0020
39.4414, -121.6439	County of Butte	91-04-0021
38.2144, -120.8181	County of Calaveras	91-05-0001
38.0069, -120.6989	County of Calaveras	91-05-0002
38.2889, -120.6936	County of Calaveras	91-05-0005
38.0769, -120.8800	County of Calaveras	91-05-0006
38.2200, -120.8161	County of Calaveras	91-05-0008
38.1639, -120.6639	County of Calaveras	91-05-0009
38.1839, -120.6881	County of Calaveras	91-05-0010
38.1081, -120.4139	County of Calaveras	91-05-0012
38.2611, -120.7200	County of Calaveras	91-05-0013
38.1461, -120.8300	County of Calaveras	91-05-0014
38.1156, -120.4481	County of Calaveras	91-05-0016
37.8617, -121.6722	County of Contra Costa	91-07-0001
37.9308, -121.9578	County of Contra Costa	91-07-0003
37.9306, -121.9447	County of Contra Costa	91-07-0004
37.8767, -121.6933	County of Contra Costa	91-07-0012
41.8625, -124.1200	County of Del Norte	91-08-0001
41.8678, -124.1211	County of Del Norte	91-08-0002
41.8661, -124.1328	County of Del Norte	91-08-0006
41.7822, -124.1456	County of Del Norte	91-08-0008
41.9583, -124.2042	County of Del Norte	91-08-0010
36.9367, -120.5614	County of Fresno	91-10-0019
36.8992, -119.7728	County of Fresno	91-10-0024
36.7956, -120.3703	County of Glenn	91-10-0026
39.6000, -122.1519	County of Glenn	91-11-0001
39.6500, -122.1700	County of Glenn	91-11-0002
39.7481, -122.1039	County of Glenn	91-11-0003
39.7672, -122.1931	County of Glenn	91-11-0004
39.5781, -122.1581	County of Glenn	91-11-0005
39.7467, -122.5244	County of Glenn	91-11-0006
39.7769, -122.2089	County of Glenn	91-11-0007
39.6633, -122.5258	County of Glenn	91-11-0008
39.7447, -122.0739	County of Glenn	91-11-0019
40.5861, -124.1669	County of Humboldt	91-12-0002
41.0647, -124.0919	County of Humboldt	91-12-0003
41.0700, -124.1200	County of Humboldt	91-12-0004
40.9081, -124.0469	County of Humboldt	91-12-0005

LOCATION OF MINING OPERATION (Latitude & Longitude in Decimals)	LEAD AGENCY	MINE ID
40.8019, -124.0169	County of Humboldt	91-12-0008
40.1144, -123.7778	County of Humboldt	91-12-0011
40.8631, -123.9900	County of Humboldt	91-12-0012
40.9119, -124.0761	County of Humboldt	91-12-0013
40.2033, -123.8433	County of Humboldt	91-12-0016
40.5311, -124.0519	County of Humboldt	91-12-0018
40.6111, -124.1939	County of Humboldt	91-12-0021
40.3539, -123.9131	County of Humboldt	91-12-0022
40.9078, -124.0836	County of Humboldt	91-12-0030
40.8872, -123.6383	County of Humboldt	91-12-0037
40.8850, -123.8000	County of Humboldt	91-12-0038
41.0436, -123.6717	County of Humboldt	91-12-0039
40.5939, -124.1619	County of Humboldt	91-12-0043
41.0447, -124.0458	County of Humboldt	91-12-0044
40.1086, -123.7975	County of Humboldt	91-12-0048
40.9125, -123.9750	County of Humboldt	91-12-0054
40.6342, -123.8608	County of Humboldt	91-12-0055
40.4750, -123.9542	County of Humboldt	91-12-0061
33.3739, -115.6381	County of Imperial	91-13-0003
33.2719, -115.4769	County of Imperial	91-13-0024
33.0311, -115.1111	County of Imperial	91-13-0025
33.2778, -115.4878	County of Imperial	91-13-0026
32.6561, -115.9256	County of Imperial	91-13-0033
32.8033, -115.9572	County of Imperial	91-13-0034
33.0133, -115.7033	County of Imperial	91-13-0040
33.3764, -115.6375	County of Imperial	91-13-0043
32.6636, -115.6964	County of Imperial	91-13-0046
32.8756, -115.6964	County of Imperial	91-13-0049
32.7789, -116.0431	County of Imperial	91-13-0052
33.0136, -115.3147	County of Imperial	91-13-0091
37.4181, -118.3989	County of Inyo	91-14-0001
35.9889, -117.9189	County of Inyo	91-14-0002
36.2239, -117.9256	County of Inyo	91-14-0003
37.3819, -118.3711	County of Inyo	91-14-0004
35.8439, -117.1289	County of Inyo	91-14-0005
35.7936, -115.9597	County of Inyo	91-14-0006
37.3597, -118.7028	County of Inyo	91-14-0007
36.3892, -116.4825	County of Inyo	91-14-0008
36.4011, -116.5231	County of Inyo	91-14-0009
36.4208, -117.9642	County of Inyo	91-14-0012

LOCATION OF MINING OPERATION (Latitude & Longitude in Decimals)	LEAD AGENCY	MINE ID
36.4233, -116.4736	County of Inyo	91-14-0013
37.0550, -118.3011	County of Inyo	91-14-0014
36.5214, -117.8822	County of Inyo	91-14-0017
36.3100, -116.3250	County of Inyo	91-14-0018
35.8406, -117.2983	County of Inyo	91-14-0022
36.1639, -116.1331	County of Inyo	91-14-0026
37.3292, -118.4067	County of Inyo	91-14-0031
36.8214, -118.2175	County of Inyo	91-14-0032
35.9869, -116.2375	County of Inyo	91-14-0038
36.3864, -117.2744	County of Inyo	91-14-0041
36.3031, -116.5117	County of Inyo	91-14-0046
36.4156, -118.0347	County of Inyo	91-14-0050
36.4578, -117.8436	County of Inyo	91-14-0051
36.1044, -117.9294	County of Inyo	91-14-0054
36.1600, -117.4061	County of Inyo	91-14-0055
36.6194, -118.0758	County of Inyo	91-14-0057
36.0133, -117.1269	County of Inyo	91-14-0064
36.2678, -117.6778	County of Inyo	91-14-0065
36.5511, -118.0531	County of Inyo	91-14-0066
36.5953, -118.0728	County of Inyo	91-14-0067
36.7886, -118.1786	County of Inyo	91-14-0068
37.3308, -118.4053	County of Inyo	91-14-0069
37.1922, -118.2433	County of Inyo	91-14-0070
35.8975, -116.2544	County of Inyo	91-14-0071
35.8756, -117.3367	County of Inyo	91-14-0077
36.1033, -117.2869	County of Inyo	91-14-0078
35.8442, -117.3069	County of Inyo	91-14-0079
37.3336, -118.4058	County of Inyo	91-14-0080
35.8136, -116.1461	County of Inyo	91-14-0082
37.3900, -118.5297	County of Inyo	91-14-0083
37.4014, -118.3319	County of Inyo	91-14-0084
37.3322, -118.4086	County of Inyo	91-14-0085
36.9353, -118.2628	County of Inyo	91-14-0086
36.9422, -118.2542	County of Inyo	91-14-0087
36.7958, -118.1667	County of Inyo	91-14-0088
36.6719, -118.0950	County of Inyo	91-14-0089
36.6544, -118.0919	County of Inyo	91-14-0090
36.5961, -118.0744	County of Inyo	91-14-0092
36.4131, -118.0356	County of Inyo	91-14-0095
36.1267, -117.9556	County of Inyo	91-14-0097

LOCATION OF MINING OPERATION (Latitude & Longitude in Decimals)	LEAD AGENCY	MINE ID
36.1169, -117.9536	County of Inyo	91-14-0098
36.4669, -117.8550	County of Inyo	91-14-0099
36.9189, -118.2369	County of Inyo	91-14-0100
37.3264, -118.4047	County of Inyo	91-14-0101
35.8661, -116.3056	County of Inyo	91-14-0103
35.8178, -117.3844	County of Inyo	91-14-0104
36.2708, -117.9028	County of Inyo	91-14-0105
37.3331, -118.4075	County of Inyo	91-14-0106
36.2708, -117.9000	County of Inyo	91-14-0107
36.1000, -117.8361	County of Inyo	91-14-0108
37.1558, -118.3219	County of Inyo	91-14-0109
37.0764, -118.2614	County of Inyo	91-14-0110
37.0006, -118.2617	County of Inyo	91-14-0111
36.3731, -118.0331	County of Inyo	91-14-0112
35.2881, -118.8039	County of Kern	91-15-0001
35.3139, -117.6781	County of Kern	91-15-0003
34.9586, -118.2869	County of Kern	91-15-0005
34.8483, -118.7758	County of Kern	91-15-0008
34.8475, -118.7706	County of Kern	91-15-0009
34.8272, -118.7556	County of Kern	91-15-0010
35.4383, -117.9258	County of Kern	91-15-0011
35.7431, -118.9025	County of Kern	91-15-0012
35.7981, -117.8761	County of Kern	91-15-0013
34.9600, -118.4631	County of Kern	91-15-0014
35.6183, -117.7475	County of Kern	91-15-0015
35.6330, -119.7731	County of Kern	91-15-0017
35.0100, -118.1681	County of Kern	91-15-0018
35.1131, -119.5250	County of Kern	91-15-0021
35.0411, -117.6881	County of Kern	91-15-0022
35.4781, -118.1189	County of Kern	91-15-0027
35.4600, -119.0519	County of Kern	91-15-0028
35.0853, -118.4475	County of Kern	91-15-0029
35.0331, -118.3261	County of Kern	91-15-0032
35.3569, -117.6611	County of Kern	91-15-0033
35.3219, -119.7081	County of Kern	91-15-0036
35.0136, -118.9625	County of Kern	91-15-0037
35.3581, -119.7481	County of Kern	91-15-0038
35.0569, -119.4419	County of Kern	91-15-0039
35.1253, -118.3778	County of Kern	91-15-0040
35.0419, -119.1750	County of Kern	91-15-0041

LOCATION OF MINING OPERATION (Latitude & Longitude in Decimals)	LEAD AGENCY	MINE ID
35.2919, -118.8031	County of Kern	91-15-0043
35.3203, -118.7825	County of Kern	91-15-0044
34.8336, -118.6972	County of Kern	91-15-0045
35.4250, -117.7000	County of Kern	91-15-0048
35.7436, -118.9161	County of Kern	91-15-0049
35.1278, -118.2336	County of Kern	91-15-0051
34.8194, -118.9078	County of Kern	91-15-0093
39.0481, -122.9581	County of Lake	91-17-0001
38.9281, -122.7569	County of Lake	91-17-0003
39.0147, -122.6308	County of Lake	91-17-0012
38.9194, -122.6644	County of Lake	91-17-0013
39.0164, -122.6400	County of Lake	91-17-0015
38.8667, -122.4389	County of Lake	91-17-0041
40.3567, -120.4492	County of Lassen	91-18-0001
40.1461, -120.3139	County of Lassen	91-18-0002
41.1797, -121.2125	County of Lassen	91-18-0005
40.4000, -120.3050	County of Lassen	91-18-0007
40.2869, -120.1081	County of Lassen	91-18-0011
40.9950, -120.8750	County of Lassen	91-18-0012
40.2839, -120.9289	County of Lassen	91-18-0014
40.4172, -120.4989	County of Lassen	91-18-0022
41.0553, -120.4625	County of Lassen	91-18-0032
40.1236, -120.1886	County of Lassen	91-18-0034
34.4311, -118.3800	County of Los Angeles	91-19-0036
33.3194, -118.3083	County of Los Angeles	91-19-0010
33.4414, -118.4678	County of Los Angeles	91-19-0011
34.5261, -117.8550	County of Los Angeles	91-19-0021
34.4428, -118.3411	County of Los Angeles	91-19-0029
34.4311, -118.3869	County of Los Angeles	91-19-0030
34.4311, -118.3506	County of Los Angeles	91-19-0032
34.4311, -118.3800	County of Los Angeles	91-19-0036
34.4331, -118.3681	County of Los Angeles	91-19-0038
34.5100, -118.6211	County of Los Angeles	91-19-0041
34.5139, -117.8533	County of Los Angeles	91-19-0046
34.4167, -118.1917	County of Los Angeles	91-19-0047
37.2181, -119.8731	County of Madera	91-20-0001
37.0100, -119.7342	County of Madera	91-20-0007
38.1569, -122.5711	County of Marin	91-21-0001
38.2831, -122.8539	County of Marin	91-21-0004
37.5406, -120.1753	County of Mariposa	91-22-0008

LOCATION OF MINING OPERATION (Latitude & Longitude in Decimals)	LEAD AGENCY	MINE ID
39.1342, -123.1839	County of Mendocino	91-23-0003
39.2917, -123.6417	County of Mendocino	91-23-0026
39.3033, -123.2111	County of Mendocino	91-23-0031
37.4742, -120.5094	County of Merced	91-24-0004
37.5036, -120.4875	County of Merced	91-24-0005
37.5119, -120.4911	County of Merced	91-24-0006
37.0250, -120.8969	County of Merced	91-24-0009
37.3331, -120.6478	County of Merced	91-24-0010
37.0061, -120.9161	County of Merced	91-24-0012
41.4175, -120.1297	County of Modoc	91-25-0002
41.4317, -120.9133	County of Modoc	91-25-0003
38.0208, -119.1147	County of Mono	91-26-0001
37.8447, -118.9997	County of Mono	91-26-0004
36.3644, -121.2081	County of Monterey	91-27-0004
36.7506, -121.6053	County of Monterey	91-27-0005
35.9989, -121.0361	County of Monterey	91-27-0007
36.5681, -121.6289	County of Monterey	91-27-0011
36.4489, -121.2831	County of Monterey	91-27-0012
38.2642, -122.2631	County of Napa	91-28-0004
39.3492, -120.9761	County of Nevada	91-29-0008
39.3367, -121.1417	County of Nevada	91-29-0010
39.0228, -121.0358	County of Nevada	91-29-0012
39.3089, -121.1489	County of Nevada	91-29-0013
39.1931, -121.0769	County of Nevada	91-29-0014
39.1769, -120.8950	County of Nevada	91-29-0015
33.5039, -117.5889	County of Orange	91-30-0004
33.8358, -117.8611	County of Orange	91-30-0007
33.4797, -117.5581	County of Orange	91-30-0009
33.5411, -117.6622	County of Orange	91-30-0011
33.5717, -117.5142	County of Orange	91-30-0013
39.0306, -121.0300	County of Placer	91-31-0004
38.9122, -121.3058	County of Placer	91-31-0005
38.8569, -121.1050	County of Placer	91-31-0006
38.9083, -121.3094	County of Placer	91-31-0007
38.8811, -121.1239	County of Placer	91-31-0008
39.0256, -121.3461	County of Placer	91-31-0009
40.2978, -121.2539	County of Plumas	91-32-0002
40.0211, -121.0647	County of Plumas	91-32-0005
40.1631, -121.0331	County of Plumas	91-32-0007
39.7753, -120.6142	County of Plumas	91-32-0008

LOCATION OF MINING OPERATION (Latitude & Longitude in Decimals)	LEAD AGENCY	MINE ID
39.7572, -120.5992	County of Plumas	91-32-0009
39.9561, -121.0833	County of Plumas	91-32-0015
39.7972, -120.3886	County of Plumas	91-32-0017
39.8558, -120.7228	County of Plumas	91-32-0018
40.2667, -121.2333	County of Plumas	91-32-0019
40.0092, -120.7269	County of Plumas	91-32-0020
39.8233, -120.4528	County of Plumas	91-32-0022
39.9433, -121.3064	County of Plumas	91-32-0023
33.7889, -117.4689	County of Riverside	91-33-0013
33.7539, -117.4881	County of Riverside	91-33-0014
33.8381, -117.5039	County of Riverside	91-33-0016
33.7300, -117.3631	County of Riverside	91-33-0018
33.7800, -116.2389	County of Riverside	91-33-0030
33.7786, -117.4786	County of Riverside	91-33-0034
33.7561, -117.4761	County of Riverside	91-33-0039
33.7586, -117.1097	County of Riverside	91-33-0040
33.8931, -117.6489	County of Riverside	91-33-0043
33.8897, -116.4744	County of Riverside	91-33-0048
33.8669, -115.4831	County of Riverside	91-33-0060
33.8178, -117.4975	County of Riverside	91-33-0061
33.7939, -116.1731	County of Riverside	91-33-0072
33.8431, -114.8575	County of Riverside	91-33-0076
38.4700, -121.0650	County of Sacramento	91-34-0003
38.4575, -121.0269	County of Sacramento	91-34-0005
38.5431, -121.3825	County of Sacramento	91-34-0006
38.4761, -121.0419	County of Sacramento	91-34-0013
38.4869, -121.0531	County of Sacramento	91-34-0016
38.5869, -121.1894	County of Sacramento	91-34-0023
38.5364, -121.3181	County of Sacramento	91-34-0036
38.5289, -121.3253	County of Sacramento	91-34-0037
38.5150, -121.3456	County of Sacramento	91-34-0043
36.3369, -120.6139	County of San Benito	91-35-0001
36.8900, -121.4181	County of San Benito	91-35-0004
36.4525, -120.7928	County of San Benito	91-35-0005
36.7061, -121.2400	County of San Benito	91-35-0006
36.7969, -121.3308	County of San Benito	91-35-0009
36.7511, -121.4028	County of San Benito	91-35-0010
36.8194, -121.3944	County of San Benito	91-35-0011
36.9031, -121.6169	County of San Benito	91-35-0012
36.7406, -121.3847	County of San Benito	91-35-0013

LOCATION OF MINING OPERATION (Latitude & Longitude in Decimals)	LEAD AGENCY	MINE ID
36.8408, -121.4175	County of San Benito	91-35-0015
36.8978, -121.5381	County of San Benito	91-35-0016
36.3722, -121.0208	County of San Benito	91-35-0019
34.4700, -117.1081	County of San Bernardino	91-36-0007
34.1381, -117.3572	County of San Bernardino	91-36-0012
35.2819, -115.1011	County of San Bernardino	91-36-0015
34.6903, -116.6383	County of San Bernardino	91-36-0017
34.1553, -117.5436	County of San Bernardino	91-36-0018
34.6300, -117.1111	County of San Bernardino	91-36-0019
34.4861, -115.7231	County of San Bernardino	91-36-0020
34.6231, -117.2969	County of San Bernardino	91-36-0023
35.5706, -115.5667	County of San Bernardino	91-36-0026
35.7453, -117.2669	County of San Bernardino	91-36-0028
34.7511, -116.4289	County of San Bernardino	91-36-0033
34.9039, -116.9861	County of San Bernardino	91-36-0034
35.0481, -116.3019	County of San Bernardino	91-36-0036
34.6169, -117.2981	County of San Bernardino	91-36-0037
34.3431, -116.8739	County of San Bernardino	91-36-0045
34.6200, -117.3425	County of San Bernardino	91-36-0047
34.0469, -117.4039	County of San Bernardino	91-36-0051
34.3681, -117.0331	County of San Bernardino	91-36-0067
34.9167, -117.0883	County of San Bernardino	91-36-0071
34.8039, -116.6311	County of San Bernardino	91-36-0077
34.8131, -116.6631	County of San Bernardino	91-36-0090
35.0861, -116.4428	County of San Bernardino	91-36-0092
34.7331, -117.5361	County of San Bernardino	91-36-0093
34.3500, -116.8050	County of San Bernardino	91-36-0095
34.7853, -115.1533	County of San Bernardino	91-36-0120
35.7861, -115.9753	County of San Bernardino	91-36-0125
34.4417, -116.4500	County of San Bernardino	91-36-0136
32.8744, -116.9214	County of San Diego	91-37-0010
32.7000, -116.9289	County of San Diego	91-37-0011
32.9050, -116.9439	County of San Diego	91-37-0019
32.7644, -116.8900	County of San Diego	91-37-0020
32.9067, -116.9506	County of San Diego	91-37-0021
32.8269, -116.9119	County of San Diego	91-37-0022
32.9111, -116.9425	County of San Diego	91-37-0036
32.9031, -116.9319	County of San Diego	91-37-0041
32.7361, -116.9461	County of San Diego	91-37-0042
33.2189, -116.5489	County of San Diego	91-37-0048

LOCATION OF MINING OPERATION (Latitude & Longitude in Decimals)	LEAD AGENCY	MINE ID
33.2297, -117.1839	County of San Diego	91-37-0052
33.0989, -117.0250	County of San Diego	91-37-0054
32.8600, -116.9408	County of San Diego	91-37-0059
33.3364, -116.2992	County of San Diego	91-37-0067
37.6919, -121.4169	County of San Joaquin	91-39-0006
37.6750, -121.4381	County of San Joaquin	91-39-0008
37.6789, -121.4450	County of San Joaquin	91-39-0009
37.7200, -121.2611	County of San Joaquin	91-39-0011
38.0539, -120.9392	County of San Joaquin	91-39-0013
37.6811, -121.4469	County of San Joaquin	91-39-0014
37.6792, -121.4319	County of San Joaquin	91-39-0015
38.2011, -121.1017	County of San Joaquin	91-39-0018
37.6281, -121.3556	County of San Joaquin	91-39-0021
37.7736, -121.3136	County of San Joaquin	91-39-0022
37.3681, -122.2319	County of San Mateo	91-41-0003
37.2461, -122.3986	County of San Mateo	91-41-0004
34.5933, -120.1600	County of Santa Barbara	91-42-0016
34.5722, -120.3739	County of Santa Barbara	91-42-0021
34.6739, -120.1536	County of Santa Barbara	91-42-0024
37.4650, -121.8869	County of Santa Clara	91-43-0001
37.4500, -121.8717	County of Santa Clara	91-43-0002
37.2969, -122.0819	County of Santa Clara	91-43-0007
37.0519, -122.0447	County of Santa Cruz	91-44-0002
37.0378, -122.1042	County of Santa Cruz	91-44-0003
37.0611, -122.0542	County of Santa Cruz	91-44-0004
40.8656, -121.7006	County of Shasta	91-45-0005
40.9331, -121.5831	County of Shasta	91-45-0006
40.7461, -122.3000	County of Shasta	91-45-0012
40.7169, -122.3469	County of Shasta	91-45-0013
40.5061, -122.3561	County of Shasta	91-45-0014
40.4931, -122.4889	County of Shasta	91-45-0015
40.5061, -122.4319	County of Shasta	91-45-0016
40.7369, -122.3050	County of Shasta	91-45-0017
41.0331, -121.6831	County of Shasta	91-45-0018
40.7569, -122.0481	County of Shasta	91-45-0023
39.4900, -120.0261	County of Sierra	91-46-0001
39.7575, -120.8722	County of Sierra	91-46-0002
39.4653, -120.8422	County of Sierra	91-46-0003
41.6664, -122.4019	County of Siskiyou	91-47-0001
41.7672, -122.6114	County of Siskiyou	91-47-0002

LOCATION OF MINING OPERATION (Latitude & Longitude in Decimals)	LEAD AGENCY	MINE ID
41.5431, -122.2850	County of Siskiyou	91-47-0006
41.7603, -122.5408	County of Siskiyou	91-47-0008
41.5431, -122.2803	County of Siskiyou	91-47-0010
41.6181, -122.4881	County of Siskiyou	91-47-0011
41.6850, -122.5389	County of Siskiyou	91-47-0019
41.8750, -122.2917	County of Siskiyou	91-47-0025
41.8692, -122.3992	County of Siskiyou	91-47-0026
41.7442, -122.5514	County of Siskiyou	91-47-0032
41.7611, -122.0581	County of Siskiyou	91-47-0055
38.2117, -121.9789	County of Solano	91-48-0003
38.2139, -121.9381	County of Solano	91-48-0004
38.1169, -122.1081	County of Solano	91-48-0005
38.2139, -121.9639	County of Solano	91-48-0006
38.5481, -122.8531	County of Sonoma	91-49-0003
38.2156, -122.5511	County of Sonoma	91-49-0021
38.5806, -122.8594	County of Sonoma	91-49-0030
38.4069, -122.6981	County of Sonoma	91-49-0042
38.5786, -122.7906	County of Sonoma	91-49-0044
38.2444, -122.5117	County of Sonoma	91-49-0045
38.5483, -122.8525	County of Sonoma	91-49-0051
38.5236, -122.8597	County of Sonoma	91-49-0054
37.6250, -120.7781	County of Stanislaus	91-50-0003
37.6331, -120.6731	County of Stanislaus	91-50-0006
37.6372, -120.5928	County of Stanislaus	91-50-0007
37.3378, -121.0864	County of Stanislaus	91-50-0008
37.6331, -120.5769	County of Stanislaus	91-50-0009
37.6294, -120.6258	County of Stanislaus	91-50-0013
37.6400, -120.7017	County of Stanislaus	91-50-0016
39.2639, -121.7750	County of Sutter	91-51-0002
40.0164, -121.9656	County of Tehama	91-52-0002
39.9758, -122.2139	County of Tehama	91-52-0008
40.0908, -122.4242	County of Tehama	91-52-0012
40.3381, -122.3250	County of Tehama	91-52-0013
39.9561, -122.3311	County of Tehama	91-52-0014
40.1989, -122.1619	County of Tehama	91-52-0017
40.3283, -121.9144	County of Tehama	91-52-0022
40.1628, -122.2544	County of Tehama	91-52-0025
39.9867, -122.0194	County of Tehama	91-52-0028
40.4619, -123.5400	County of Trinity	91-53-0002
40.7319, -123.0131	County of Trinity	91-53-0007

LOCATION OF MINING OPERATION (Latitude & Longitude in Decimals)	LEAD AGENCY	MINE ID
36.1131, -118.9461	County of Tulare	91-54-0002
35.9878, -118.9156	County of Tulare	91-54-0005
36.4000, -119.0581	County of Tulare	91-54-0007
35.9700, -118.9250	County of Tulare	91-54-0008
35.8931, -118.9381	County of Tulare	91-54-0011
36.3750, -119.0039	County of Tulare	91-54-0013
35.9881, -118.9169	County of Tulare	91-54-0015
35.9819, -119.0819	County of Tulare	91-54-0019
36.0494, -118.9325	County of Tulare	91-54-0022
36.0319, -118.9247	County of Tulare	91-54-0033
37.9436, -120.4411	County of Tuolumne	91-55-0001
37.8689, -120.2239	County of Tuolumne	91-55-0004
37.8961, -120.5200	County of Tuolumne	91-55-0005
34.3981, -118.9339	County of Ventura	91-56-0013
SMGB		
37.9369, -122.4039	SMGB (Board)	91-07-0006
36.7111, -121.8000	SMGB (Board)	91-27-0006
34.0250, -117.4600	SMGB (Board)	91-33-0062
39.2022, -121.5036	SMGB (Board)	91-58-0002
39.1850, -121.4569	SMGB (Board)	91-58-0003
39.1978, -121.4800	SMGB (Board)	91-58-0006
39.0211, -121.4331	SMGB (Board)	91-58-0007
39.2228, -121.3331	SMGB (Board)	91-58-0013
TOTAL:		526 Mines

Table 9: Abandoned Historic Mines and Remaining Hazards

LOCATION	NUMBER OF KNOWN REMAINING HISTORIC MINE FEATURES THAT ARE CONSIDERED HAZARDOUS
County of Alameda	22
County of Alpine	3
County of Amador	15
County of Butte	16
County of Calaveras	16
County of Colusa	34
County of Contra Costa	25
County of Del Norte	24
County of El Dorado	213
County of Fresno	4
County of Glenn	2
County of Humboldt	1

LOCATION	NUMBER OF KNOWN REMAINING HISTORIC MINE FEATURES THAT ARE CONSIDERED HAZARDOUS
County of Imperial	309
County of Inyo	2601
County of Kern	569
County of Lake	7
County of Lassen	3
County of Los Angeles	72
County of Madera	18
County of Marin	5
County of Mariposa	132
County of Modoc	10
County of Mono	409
County of Monterey	1
County of Napa	22
County of Nevada	163
County of Orange	28
County of Placer	185
County of Plumas	43
County of Riverside	419
County of Sacramento	3
County of San Benito	5
County of San Bernardino	3362
County of San Diego	64
County of San Joaquin	1
County of San Luis Obispo	22
County of Santa Barbara	6
County of Santa Clara	32
County of Santa Cruz	2
County of Shasta	96
County of Sierra	160
County of Siskiyou	68
County of Solano	3
County of Sonoma	8
County of Tehama	4
County of Trinity	68
County of Tulare	29
County of Tuolumne	168
County of Ventura	7
County of Yolo	1
County of Yuba	9

Table 10: SMARA Lead Agencies

LEAD AGENCY	NUMBER OF SURFACE MINING OPERATIONS
CITIES	
City of Atascadero	1
City of Azusa	3

LEAD AGENCY	NUMBER OF SURFACE MINING OPERATIONS
City of Banning	1
City of Barstow	1
City of Chula Vista	1
City of Corona	2
City of Fremont	2
City of Irwindale	12
City of Lake Elsinore	4
City of Lake Forest	1
City of Lompoc	1
City of Los Angeles	3
City of Montague	1
City of Mt. Shasta	1
City of Needles	1
City of Oceanside	2
City of Oroville	1
City of Oxnard	1
City of Pacifica	1
City of Palmdale	8
City of Paso Robles	2
City of Poway	1
City of Rancho Cordova	2
City of Redding	2
City of Redlands	2
City of Rialto	2
City of Riverside	1
City of Sacramento	1
City of San Bernardino	4
City of San Diego	5
City of San Marcos	1
City of Santa Maria	1
City of Santee	1
City of Taft	1
City of Tracy	1
City of Twenty-Nine Palms	1
City of Upland	3
Town of Apple Valley	1
Town of Truckee	2
Total City Lead Agency Surface Mines:	82
COUNTIES	
County of Alameda	11
County of Alpine	4
County of Amador	25

LEAD AGENCY	NUMBER OF SURFACE MINING OPERATIONS
County of Butte	20
County of Calaveras	15
County of Colusa	3
County of Contra Costa	4
County of Del Norte	8
County of Fresno	15
County of Glenn	13
County of Humboldt	70
County of Imperial	35
County of Inyo	74
County of Kern	62
County of Kings	1
County of Lake	10
County of Lassen	37
County of Los Angeles	13
County of Madera	4
County of Marin	4
County of Mariposa	4
County of Mendocino	31
County of Merced	25
County of Modoc	18
County of Mono	11
County of Monterey	16
County of Napa	4
County of Nevada	14
County of Orange	5
County of Placer	10
County of Plumas	22
County of Riverside	48
County of Sacramento	25
County of San Benito	16
County of San Bernardino	87
County of San Diego	22
County of San Joaquin	28
County of San Luis Obispo	30
County of San Mateo	4
County of Santa Barbara	17
County of Santa Clara	7
County of Santa Cruz	7
County of Shasta	33
County of Sierra	8
County of Siskiyou	34

LEAD AGENCY	NUMBER OF SURFACE MINING OPERATIONS
County of Solano	9
County of Sonoma	19
County of Stanislaus	15
County of Sutter	4
County of Tehama	21
County of Trinity	12
County of Tulare	27
County of Tuolumne	10
County of Ventura	13
County of Yolo	7
Total County Lead Agency Surface Mines:	1,091
SMGB (Board)	
SMGB (Board)	36
Total Surface Mines:	1,209